

Asado Pavilion

Top Level of Westlake Parking Garage Cherry and Battery Streets Burlington, VT 05401

Owner:
41 Cherry Street, LLC
25 Cherry Street
Burlington, VT 05401



Building Code Summary:

Reference: Westlake Parking Garage Drawings, Gardner Kilcoyne Architects, Dated 6-7-2005

Adopted code at time of original construction: BOCA 1996, NFPA 101 1997.

Construction Type: 1B (Non-combustible, Protected)

Original Occupancy Group: S-2 Storage (Parking Garage)

Automatic Sprinkler System: Yes

Maximum permitted height: Unlimited

New Occupancy Group: Assembly A-2 Restaurant. (2012 IBC)

Permitted maximum height for A-2 Occupancy: 11 stories

Egress: Proposed structure is open (no walls). Direct egress path or public way.

Finish Schedule

Steel structure and chimney cap: pre- oxidized weathered steel.

Roofing: Fully adhered 60 mil Sarnafil G476 PVC membrane roofing system, Color: Dark Gray

Ceiling and fascia: 1x6 Rough Sawn Ship Lap Western Red Cedar

Brick: Belden Glazed Brick, glazed corner bricks at wall ends, Color: Red

Concrete: Board formed with 2x8 rough sawn (not dressed) green Hemlock

Vegetated Roof:
Live Roof Lite System. Provide complete system including 1' x 2' x 1 3/4" interlocking plastic trays filled with 2 1/2" of engineered soil and a combination of succulent ground cover, water conserving accent plants and spring blooming bulbs. Saturated weight: 15-17 lbs / sf. Install over 40 mil polyethylene slip sheet.

Irrigation System:
Complete system including controller unit, weather data collecting unit, low voltage electric solenoid control valve, weatherproof system enclosure panel, spray heads, polyethylene drip piping, root intrusion prevention system , lower source and electrical connection.

Lighting Fixture Schedule

TYPE	MANUFACTURER	CATALOG NUMBER	SOURCE	COLOR TEMP	FOCUS (FIELD CHANGEABLE)	STEM LENGTH	COLOR	WATTS	FUNCTION	DIMMING GROUP	DIMMING GROUP NAME	DIMMER TYPE	QTY ON GROUP	TOTAL WATTS	MOUNTING	POWER SUPPLY	NOTES
AS-3	BK LIGHTING	PM-3-MN-LED-E37-SP-RDP-12-11-D -	LED	2,700 k	SPOT	3'	DARK BRONZE	8	ENTRANCE ACCENT	1	WEST END CEILING	MAGNETIC LOW VOLTAGE DIMMER	2	16	SURFACE CEILING	REMOTE	
AS-3	BK LIGHTING	PM-3-MN-LED-E37-SP-RDP-12-11-D -	LED	2,700 k	SPOT	3'	DARK BRONZE	8	ENTRANCE ACCENT	1	WEST END CEILING	MAGNETIC LOW VOLTAGE DIMMER	2	16	SURFACE CEILING	REMOTE	
AS-3-TRA-1	BK LIGHTING	TR150-120	MLV	NA	NA	NA	STANDARD	150	TRANSFORMER	1		MAGNETIC LOW VOLTAGE DIMMER	3	24	WALL	REMOTE	MOUNT POWER SUPPLY AS INDICATED ON DRAWINGS
AS-3	BK LIGHTING	PM-3-MN-LED-E37-SP-RDP-12-11-D -	LED	2,700 k	SPOT	3'	DARK BRONZE	8	PREP-AREA2	1	SERVING PREP-AREA	MAGNETIC LOW VOLTAGE DIMMER	3	24	SURFACE CEILING	REMOTE	
AS-3-TRA-2	BK LIGHTING	TR150-120	MLV	NA	NA	NA	STANDARD	150	TRANSFORMER	1		MAGNETIC LOW VOLTAGE DIMMER	3	24	WALL	REMOTE	MOUNT POWER SUPPLY AS INDICATED ON DRAWINGS
AS-6	BK LIGHTING	PM-6-MN-LED-E37-SP-RDP-12-11-D -	LED	2,700 k	SPOT	6'	DARK BRONZE	8	DINING	3	COMMUNITY TABLE	MAGNETIC LOW VOLTAGE DIMMER	3	24	SURFACE CEILING	REMOTE	
AS-6-TRA-1	BK LIGHTING	TR150-120	MLV	NA	NA	NA	STANDARD	150	TRANSFORMER	1		MAGNETIC LOW VOLTAGE DIMMER	1	8	WALL	WALL MOUNTED	MOUNT POWER SUPPLY AS INDICATED ON DRAWINGS
BS	BK LIGHTING	DS-LED-E36-WRL-E27-12-11-A - 360SL -FC	LED	2,700 k	FLOOD	NONE	DARK BRONZE	8	SECURITY	NA	SECURITY	NA	1	8	WALL	WALL MOUNTED	CANOPY POWER SUPPLY
CS-18	BK LIGHTING	TR150-120	MLV	NA	NA	NA	STANDARD	150	TRANSFORMER	1		MAGNETIC LOW VOLTAGE DIMMER	2	32	SURFACE CEILING	REMOTE	MOUNT POWER SUPPLY AS INDICATED ON DRAWINGS
CS-18-TRA-1	BK LIGHTING	TR150-120	MLV	NA	NA	NA	STANDARD	150	TRANSFORMER	1		MAGNETIC LOW VOLTAGE DIMMER	2	32	WALL	REMOTE	MOUNT POWER SUPPLY AS INDICATED ON DRAWINGS
D	NOT USED																
E	NOT USED																
FS	BK LIGHTING	SF-36"-LED-E37-WFL-A9-RDP-13-11-A	LED	2,700 k	FLOOD	36'	DARK BRONZE	8	RAMP	5	RAMP	MAGNETIC LOW VOLTAGE DIMMER	2	16	IN GROUND WITH ANCHOR BASE	REMOTE	REPLACE EXISTING LIGHTS
FS-TRA-1	BK LIGHTING	TR150-120	MLV	NA	NA	NA	STANDARD	150	TRANSFORMER	1		MAGNETIC LOW VOLTAGE DIMMER			WALL		MOUNT POWER SUPPLY AS INDICATED ON DRAWINGS

SHEET LIST

- G001 Title Sheet
- S1.0 Foundation Plan
- S1.1 Pavilion Framing
- S3.0 Details
- A101 Floor Plan / Reflected Ceiling Plan
- A102 Roof Plan & Building Elevations
- A103 Building Elevations & Sections
- A104 Details
- A105 Equipment Details
- A106 Equipment Details

SITE LOCATION MAPS



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41 Cherry Street, LLC

Asado Pavilion

Title Sheet

Project number: A2014021.00
Date: 14 APRIL 2015
Drawn by: PBI/AC
Checked by: KN
Project Phase: FOR PERMIT

G001

Scale: 1/4" = 1'-0"

4/14/2015 4:37:56 PM
C:\Users\jld\Documents\Drawings\Local Files\14384 - Asado Pavilion - R15 - Matt Local.rvt

BASIS OF DESIGN

1.	Building Code:	2012 VERMONT FIRE AND BUILDING SAFETY CODE/ 2012 INTERNATIONAL BUILDING CODE
2.	Dead Loads:	
a.	Road Dead Load:	15 psf
b.	Green Roof System Dead Load:	20 psf
3.	Live Loads:	
a.	Road Live Load:	Snow Load Governs
4.	Road Snow Load:	
a.	Ground Snow Load, Pg:	40 psf
b.	Flat Roof Snow Load, Pf:	40 psf
c.	Snow Exposure Factor, Ce:	1.0
d.	Snow Load Importance Factor, I:	1.0
e.	Thermal Factor, Ct:	1.2
5.	Wind Design Data:	
a.	Basic Wind Speed, V:	115 mph
b.	Risk Category:	II
c.	Wind Exposure:	C
d.	Internal Pressure Coefficients:	+/- 0.25
e.	Components and Cladding Wind Pressure:	per ASCE 7
6.	Earthquake Design Data:	
a.	Risk Category:	II
b.	Seismic Importance Factor, I:	1.0
c.	Mapped Spectral Response Acceleration, SS:	0.356
d.	Mapped Spectral Response Acceleration S1:	0.107
e.	Site Class:	D
f.	Spectral Response Coefficient, SDS:	0.380
g.	Spectral Response Coefficient, SD1:	0.199
h.	Seismic Design Category:	C
i.	Basic Seismic-Force-Resisting System:	Steel System Not Specifically Detailed For Seismic Resistance
j.	Design Base Shear:	4k
k.	Seismic Response Coefficient, Cs:	0.12
l.	Response Modification Factor, R:	3.0
m.	Analysis Procedure Used:	Equivalent Lateral Force Procedure

ABBREVIATIONS

AB	ANCHOR BOLT	MC	MOMENT CONNECTION
AFF	ABOVE FINISH FLOOR	N.S.	NEAR SIDE
AL	ALUMINUM	OC	ON CENTER
B.O.F.	BOTTOM OF FOOTING	PH	PIER DESIGNATION
DWG	DRAWING	PL	PLATE
E.F.	EACH FACE	SS	STAINLESS STEEL
ELEV.	ELEVATION	STD	STANDARD
EP	EMBED PLATE	T.O.C.	TOP OF CONCRETE
EQ	EQUAL	T.O.S.	TOP OF STEEL
E.S.	EACH SIDE	T.O.SHELF	TOP OF SHELF
E.W.	EACH WAY	T.O.W.	TOP OF WALL
EX	EXISTING	TYP.	TYPICAL
F#	FOOTING DESIGNATION	U.N.O.	UNLESS NOTED OTHERWISE
FND	FOUNDATION	V.I.F.	VERIFY IN FIELD
F.S.	FAR SIDE		
H.T.	HEAVY TIMBER		

DRAWING LEGEND

	NORTH ARROW		CONCRETE
	ELEVATION		GROUT or FINE CRUSHED GRAVEL
	TOP OF FOOTING ELEV.		GRATING
	SECTION NUMBER DRAWING WHERE SHOWN		LEDGE/ROCK
	DECK SPAN DIRECTION OR GRATING DIRECTION		3/4" CRUSHED STONE
	SLOPE DIRECTION, and MAGNITUDE		COMPACTED GRANULAR FILL
	BEAM/COLUMN SPLICE		RIGID INSULATION
	ROOF PITCH		WOOD
	FOOTING STEP		UNDISTURBED SUBGRADE
	OPENING		CMU BLOCK
	MOMENT CONNECTION		BRICK
	GUARDRAIL/RAILING		
	BEAM PENETRATION		

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41 Cherry Street, LLC

ASADO PAVILION

BASIS OF DESIGN,
NOTES

Project number:	14384
Date:	14 APRIL 2015
Drawn by:	EAA
Checked by:	RMJ
Project Phase:	FOR PERMIT

S0.1

Scale: 1/8" = 1'-0"

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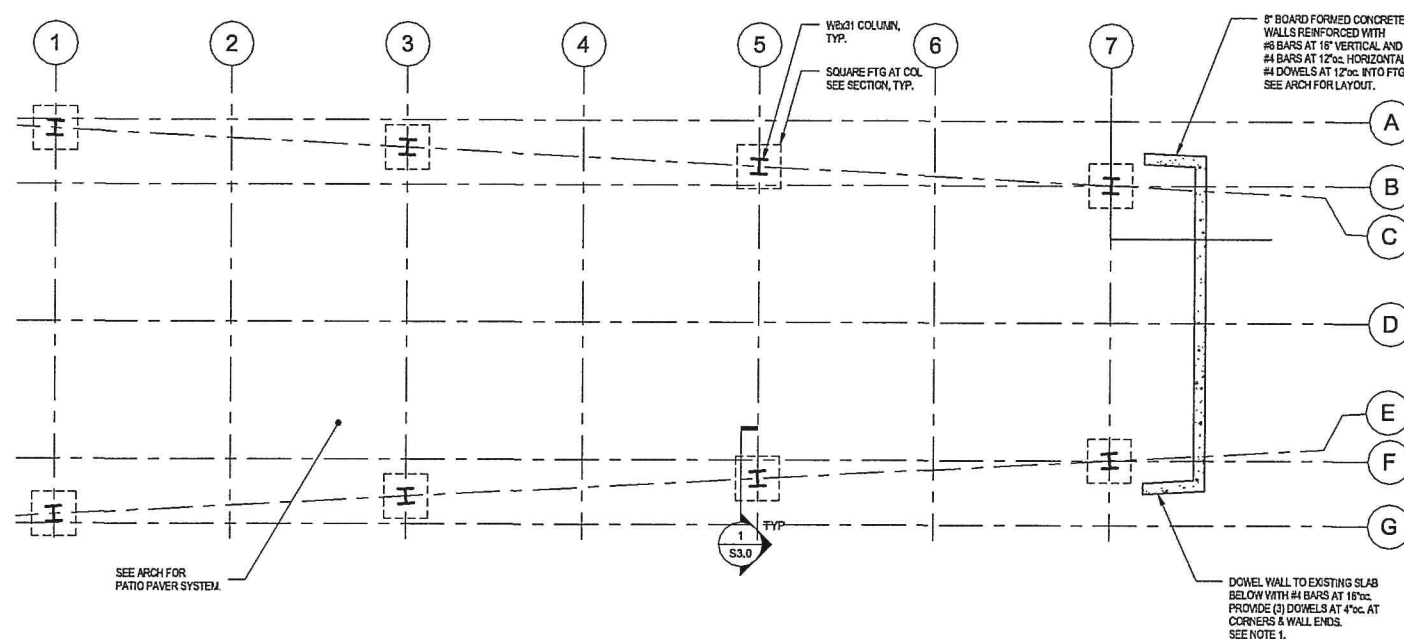


No.	Description	Date
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Project number :	14384
Date :	14 APRIL 2015
Drawn by :	EAA
Checked by :	RMJ
Project Phase :	FOR PERMIT

S1.0

Scale: $1/4" = 1'-0"$



① FOUNDATION PLAN
1/4" = 1'-0"

NOTES:
1. DOWELS INTO EXISTING SLAB TO BE INSTALLED WITH HILTI HY-200 EPOXY ANCHORING SYSTEM, 6" EMBEDMENT. DO NOT CUT EXISTING REBAR.
2. CONCRETE TO BE 4000PSI.

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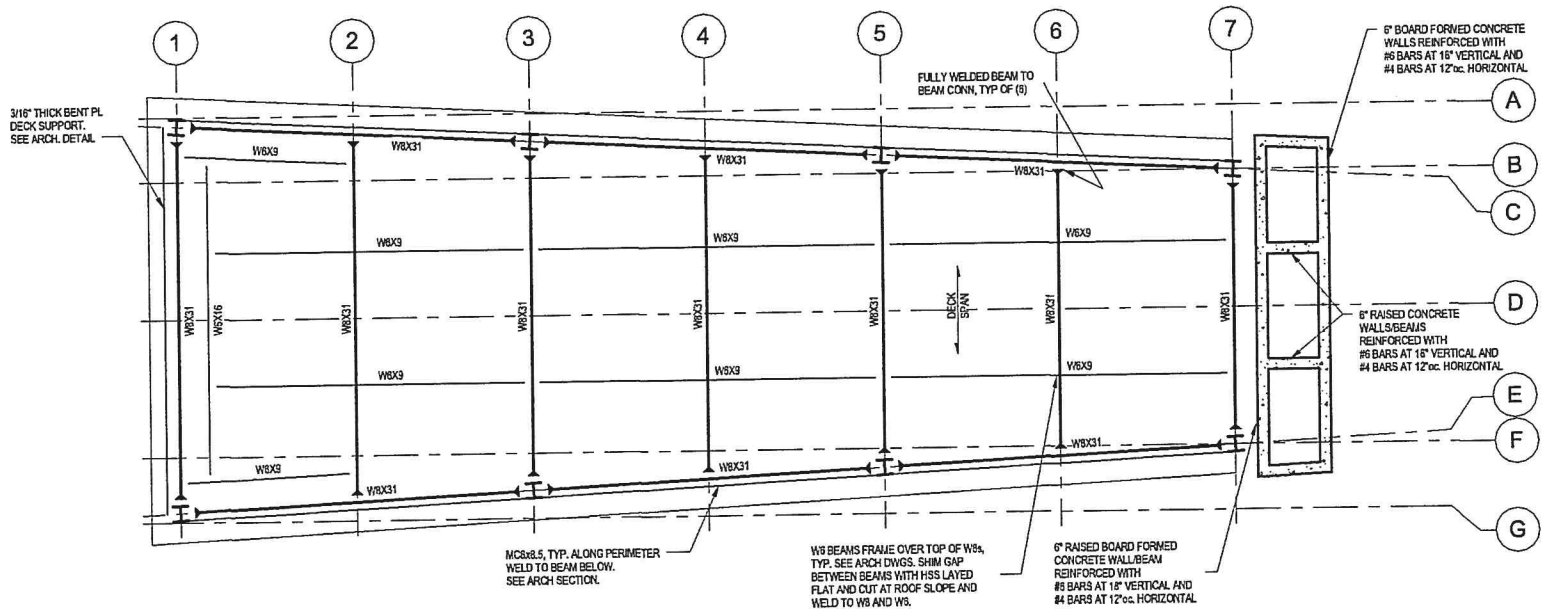
41 Cherry Street, LLC
ASADO PAVILION

PAVILION FRAMING

Project number:	14384
Date:	14 APRIL 2015
Drawn by:	EAA
Checked by:	RMJ
Project Phase:	FOR PERMIT

S1.1

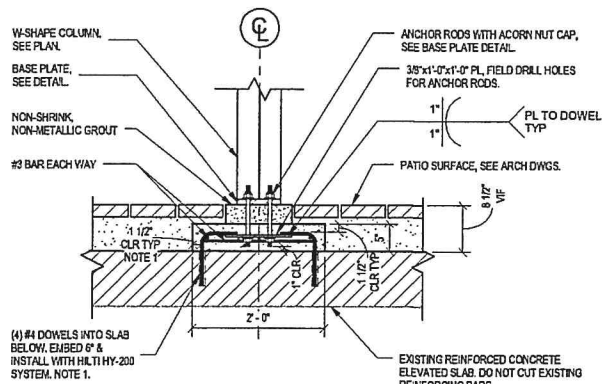
Scale: 1/4" = 1'-0"



1 PAVILION FRAMING
1/4" = 1'-0"

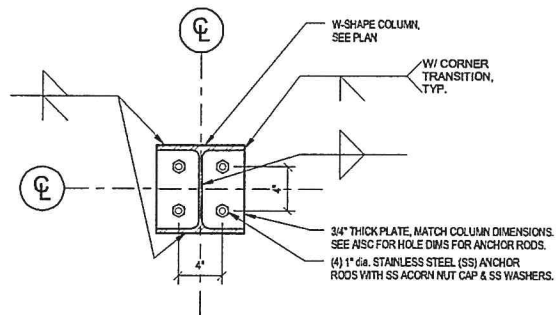
- NOTES:
1. TOP OF STEEL BEAM ELEVATION DENOTED AS XX'-XX".
 2. ROOF DECK TO BE 1 1/2" TYPE B, 22GA, 2 SPAN MINIMUM FASTEN WITH 364 PATTERN WITH HLT X-ENP-19 L15 POWDER ACTUATED FASTENERS (OR EQUIVALENT) AT EACH SUPPORT. USE HLT S-2C 02 L15WH SCREWS (OR EQUIVALENT) FOR SIDELAP FASTENERS AT 1'-0" MAX.
 3. MOMENT CONNECTIONS INDICATED BY TRIANGLE AT END OF BEAM. SEE DETAILS.
 4. STEEL TO BE COR-TEN OR EQUIVALENT. TREAT FIELD WELDS, GRINDS, ABRASIONS TO MATCH SURROUNDING WEATHERED APPEARANCE.

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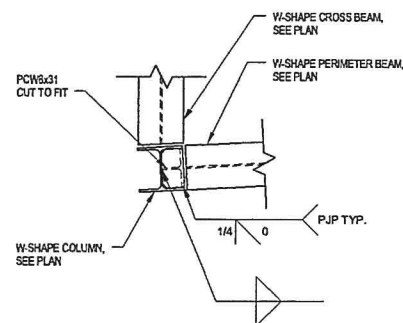


NOTES:
1. DOVEL LOCATION MAY BE SHIFTED UP TO 3" IN PLAN DIRECTION TO AVOID REBAR IN EXISTING SLAB, SO LONG AS MIN CLEAR DIMS ARE MAINTAINED.

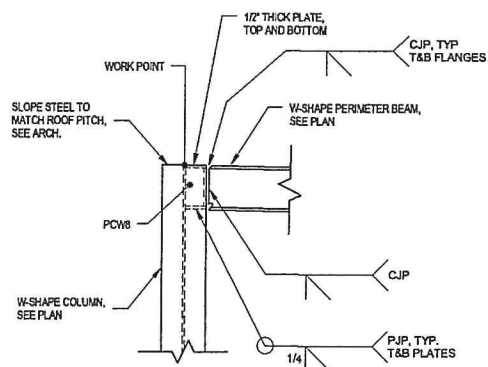
1 SECTION AT COLUMN BASE
3/4" = 1'-0"



2 TYPICAL BASE PLATE
1 1/2" = 1'-0"



ELEVATION VIEW



ELEVATION VIEW

4 TYPICAL MOMENT FRAME CONNECTION
3/4" = 1'-0"

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ASADO PAVILION

DETAILS

Project number:	14384
Date:	14 APRIL 2015
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Checked by:	RMJ
Project Phase:	FOR PERMIT

S3.0

Scale: As indicated

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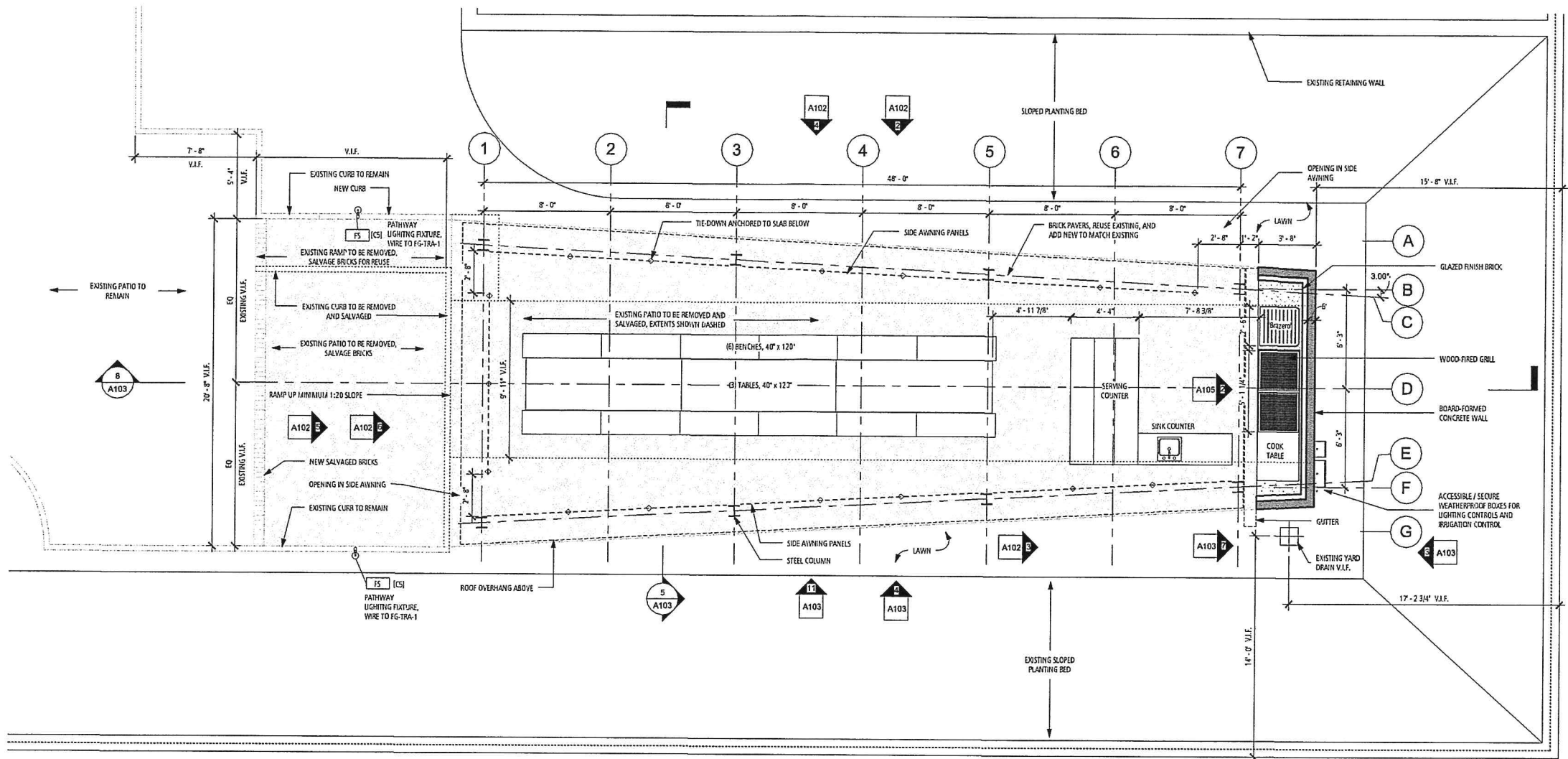
Asado Pavilion

Floor Plan / Reflected
Ceiling Plan

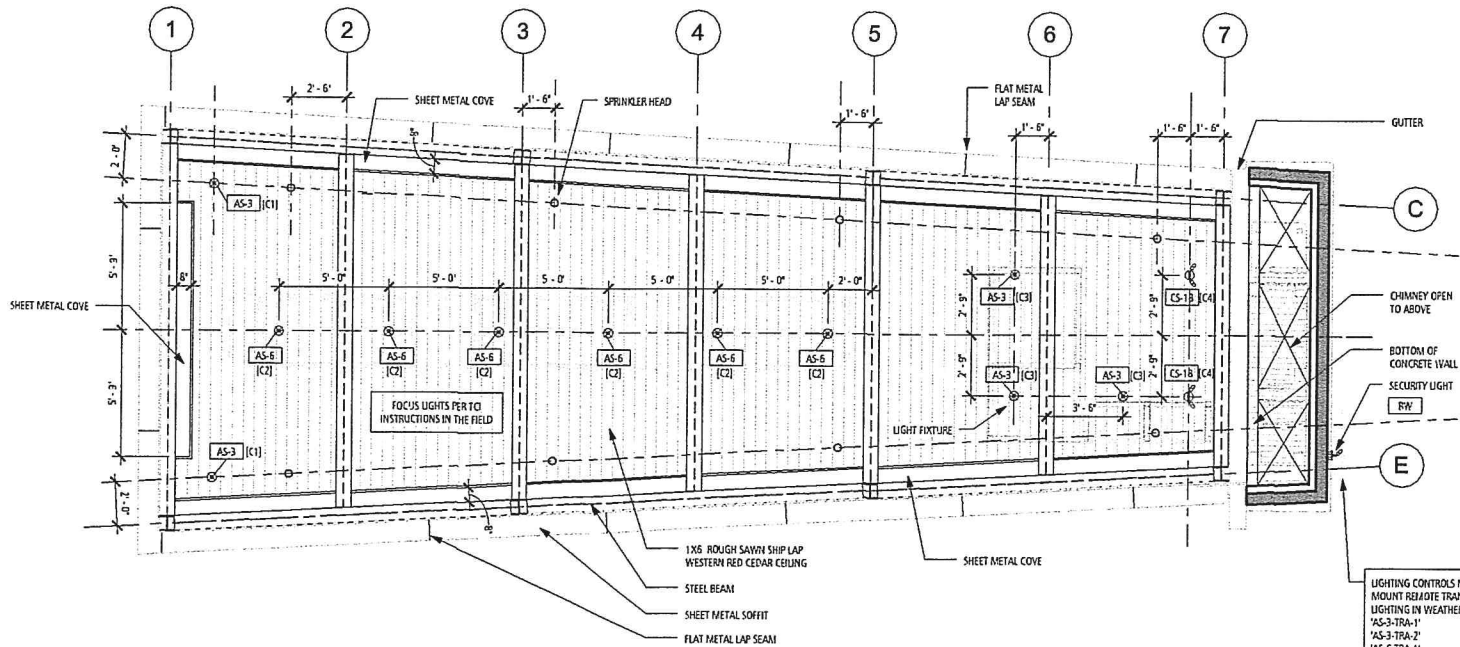
Project number:	A2014021.00
Date:	14 APRIL 2015
Drawn by:	PB/AC
Checked by:	KJ
Project Phase:	FOR PERMIT

A101

Scale: 1/4" = 1'-0"



1 Floor Plan
1/4" = 1'-0"



2 Reflected Ceiling Plan
1/4" = 1'-0"

LIGHTING CONTROLS NOTES:
MOUNT REMOTE TRANSFORMERS FOR
LIGHTING IN WEATHERPROOF BOX
"AS-3-TRA-1"
"AS-3-TRA-2"
"AS-6-TRA-1"
"CS-18-TRA-1"
"YG-TRA-1"

MOUNT DIMMERS IN WEATHERPROOF
BOX - DIMMERS TO BE APPROVED BY
LED MANUFACTURER FOR USE WITH LED
AND TRANSFORMER/DRIVER

PROPOSED LIGHTING CIRCUIT NOTES:
CIRCUIT DESIGNATION (C#)
CIRCUIT (C1), TRANSFORMER "AS-3-TRA-1"
CIRCUIT (C2), TRANSFORMER "AS-6-TRA-1"
CIRCUIT (C3), TRANSFORMER "AS-6-TRA-2"
CIRCUIT (C4), TRANSFORMER "CS-18-TRA-1"
CIRCUIT (CS), TRANSFORMER "YG-TRA-1"

ALL WIRING TO BE PER MANUFACTURERS
INSTRUCTIONS AND LOCAL CODES

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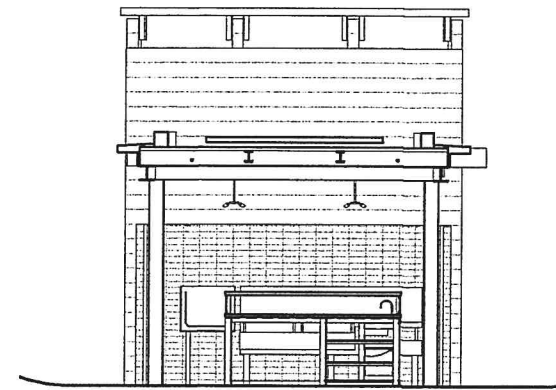
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Roof Plan & Building
Elevations

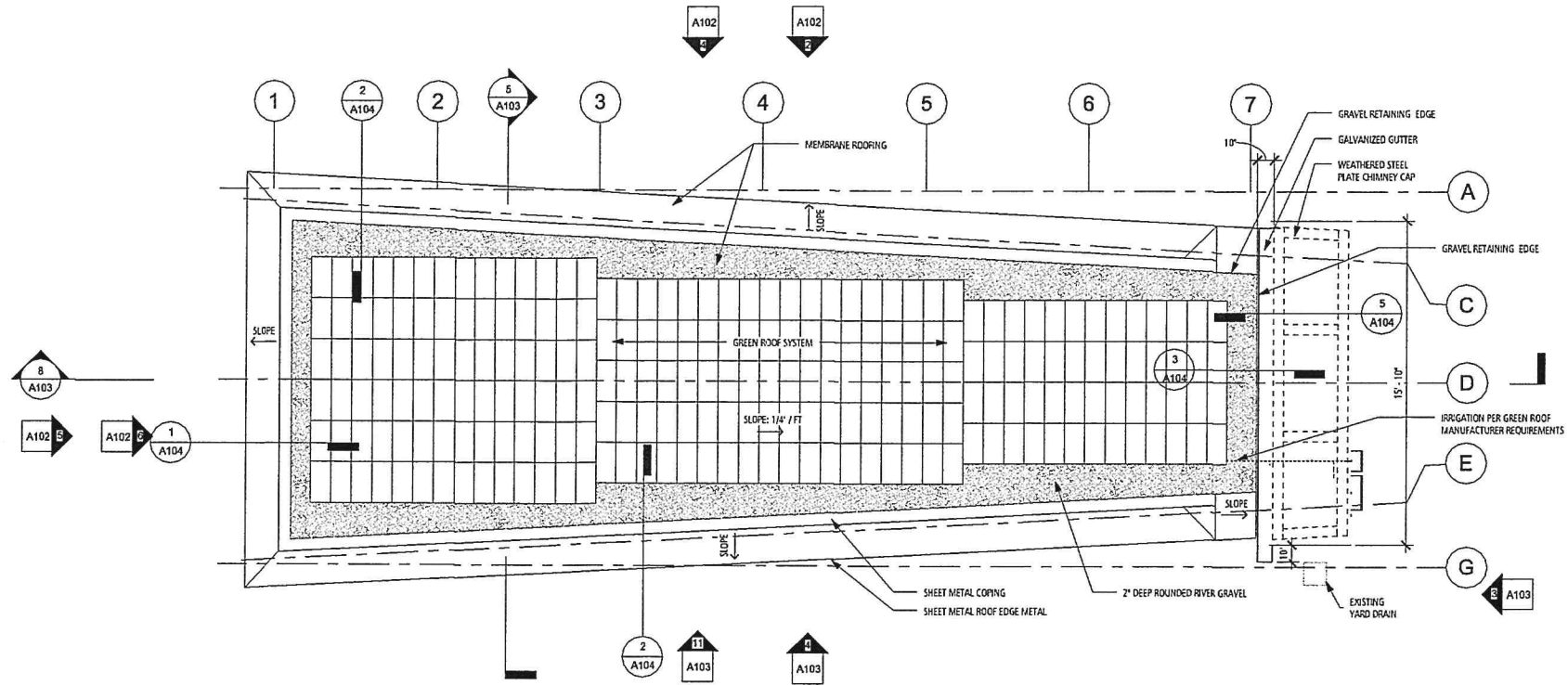
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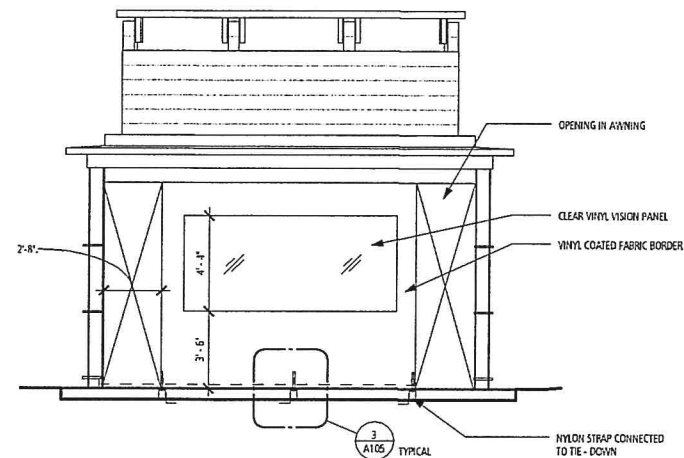
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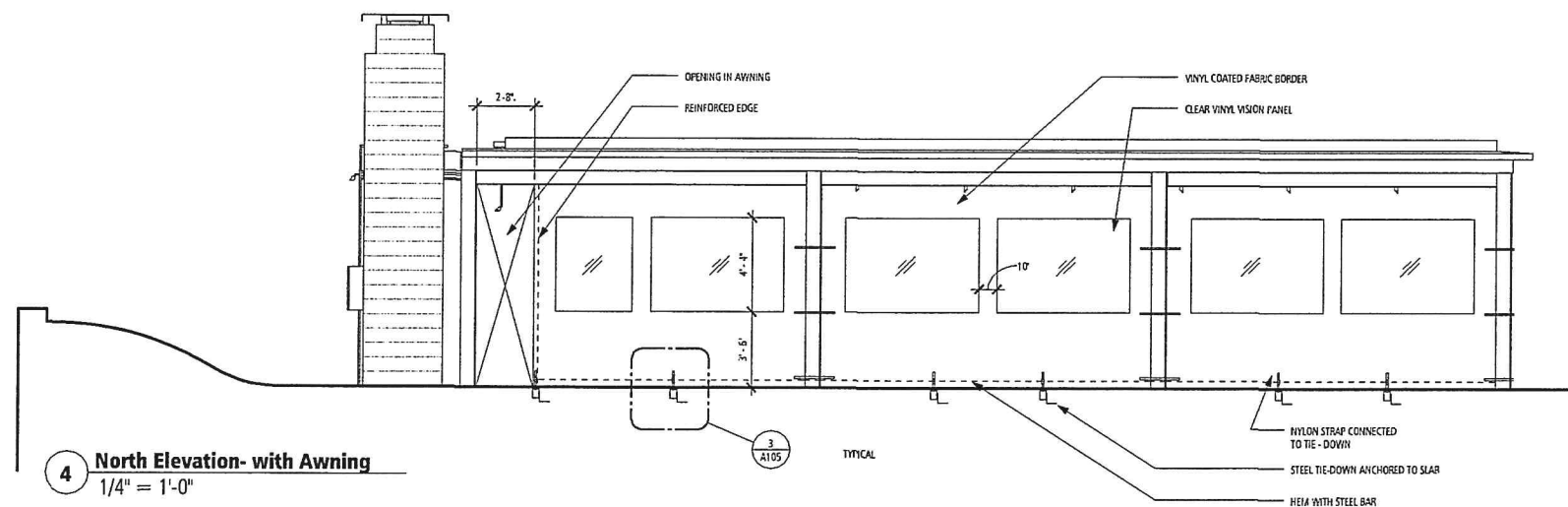
3 Elevation at Serving Counter
1/4" = 1'-0"



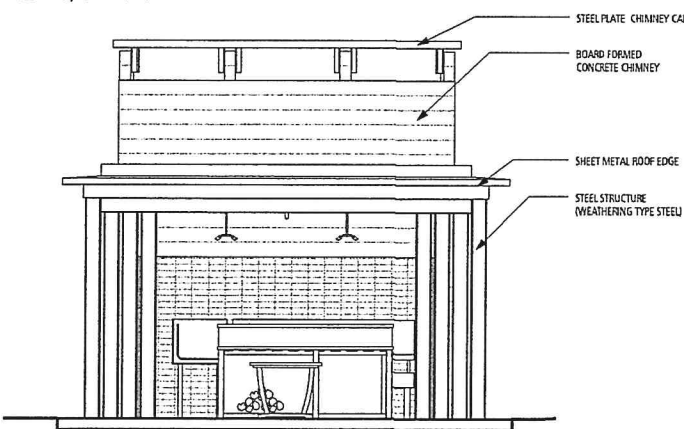
1 Roof Plan
1/4" = 1'-0"



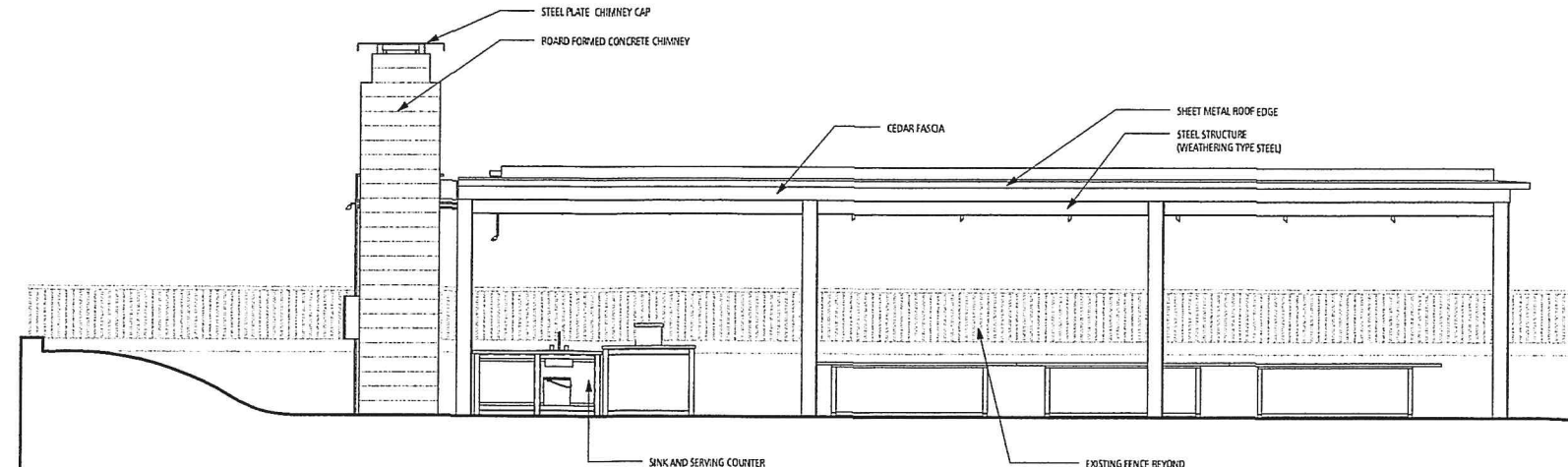
6 West Elevation with Awning
1/4" = 1'-0"



4 North Elevation- with Awning
1/4" = 1'-0"



5 West Elevation
1/4" = 1'-0"



2 North Elevation
1/4" = 1'-0"

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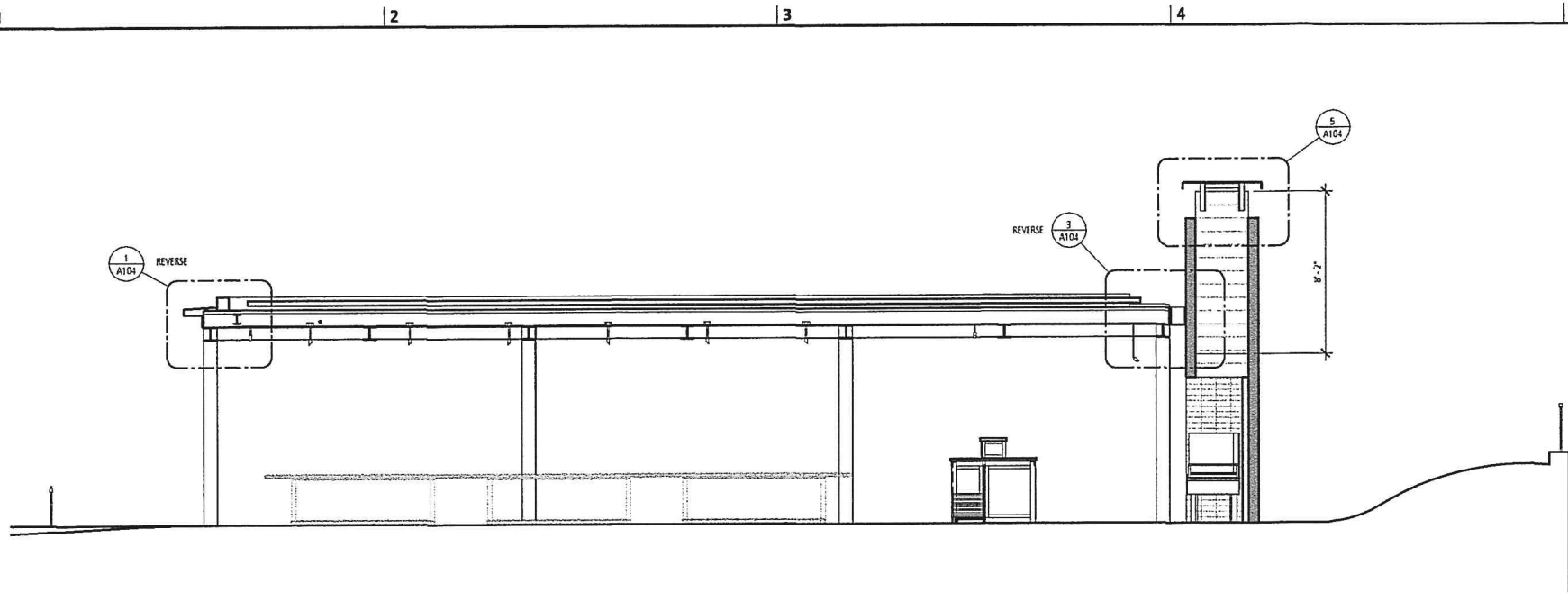
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Building Elevations &
Sections

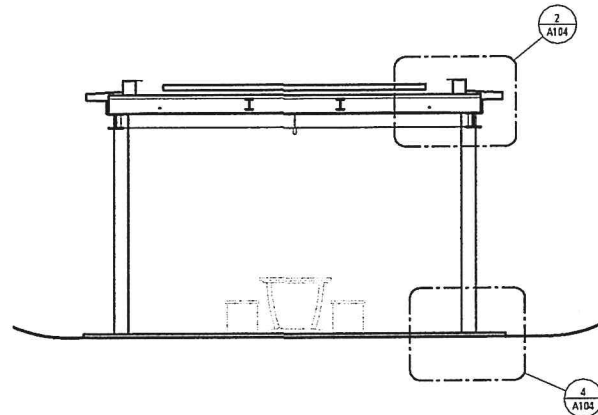
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Date:	14 APRIL 2015
Drawn by:	PB/AC
Checked by:	KN
Project Phase:	FOR PERMIT

A103

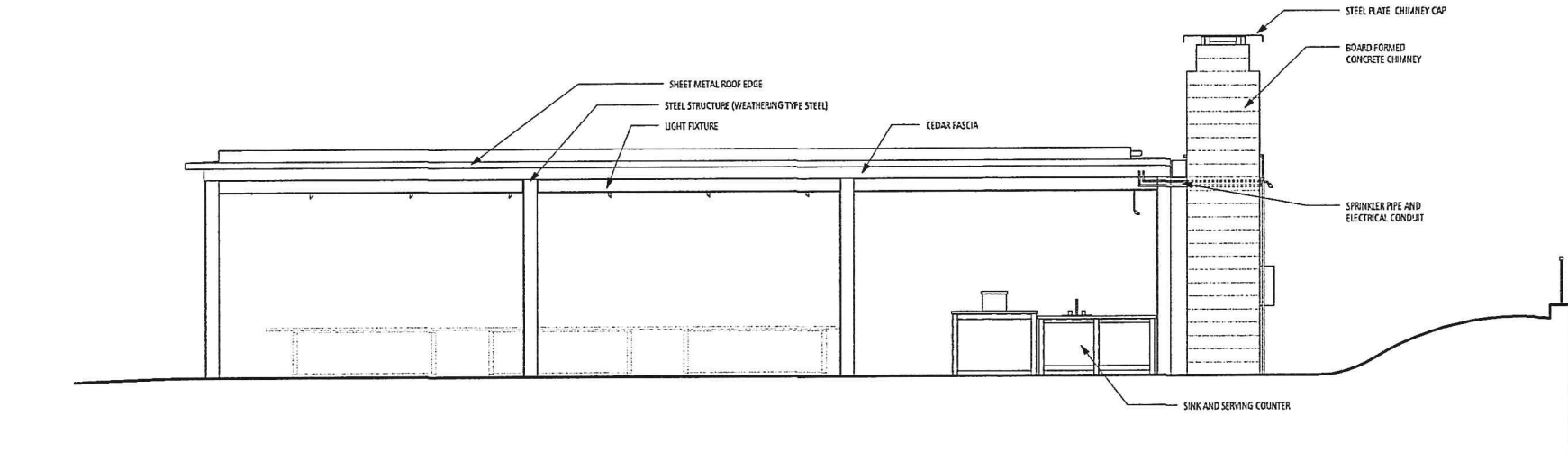
Scale: 1/4" = 1'-0"



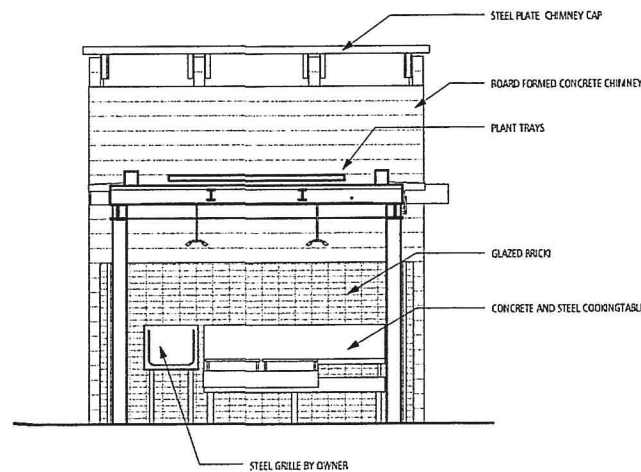
8 Building Section B
1/4" = 1'-0"



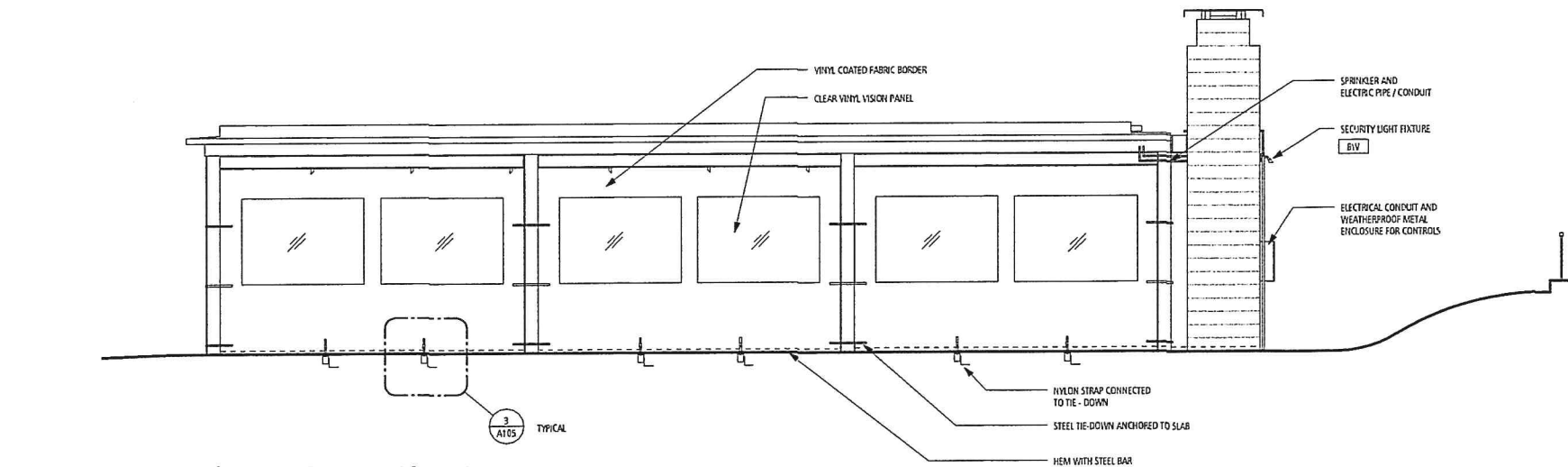
5 Building Section A
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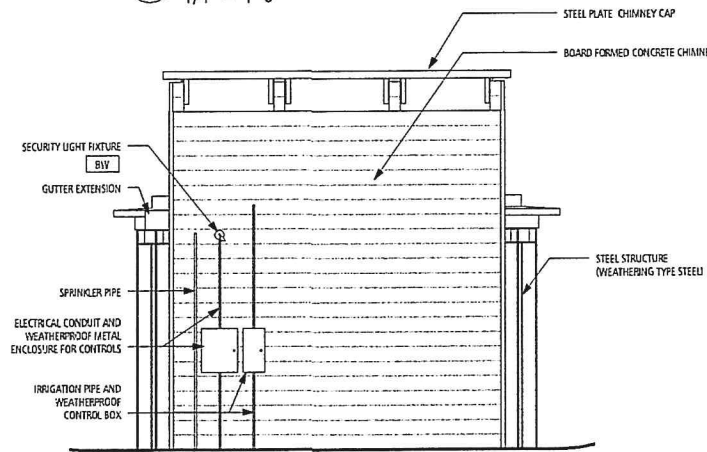
4 South Elevation
1/4" = 1'-0"



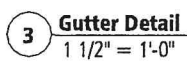
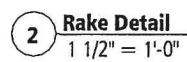
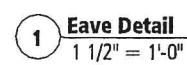
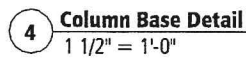
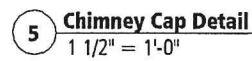
7 Elevation at Grille
1/4" = 1'-0"



11 South Elevation with Awning
1/4" = 1'-0"



3 East Elevation
1/4" = 1'-0"

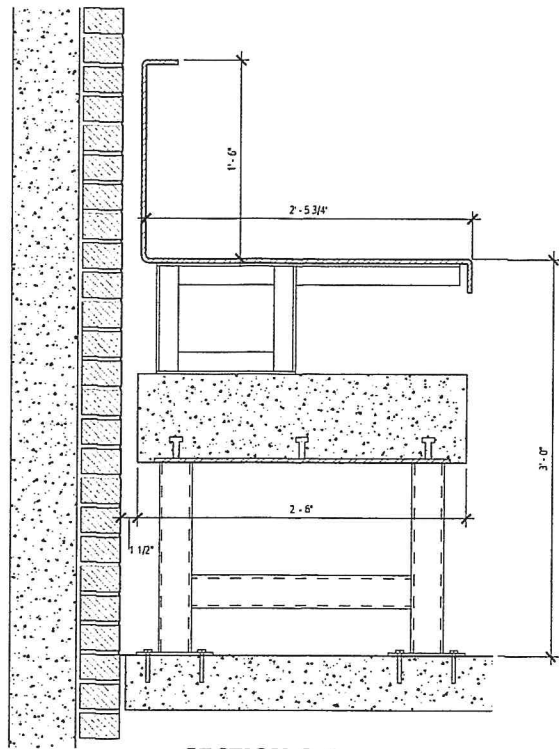
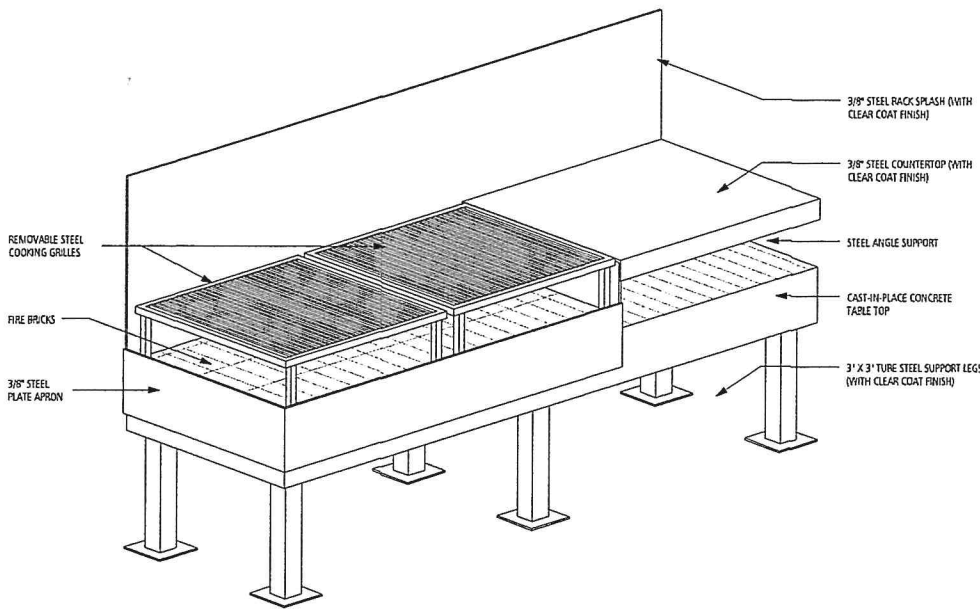


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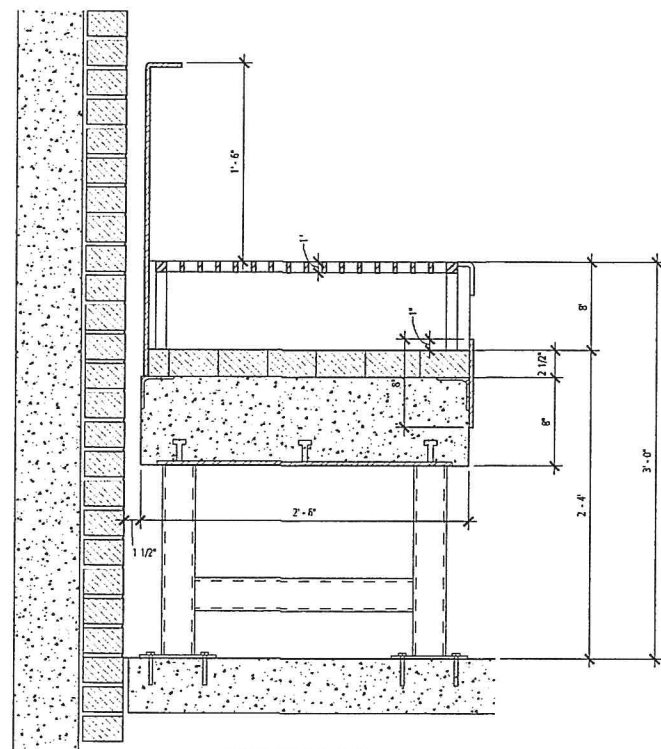
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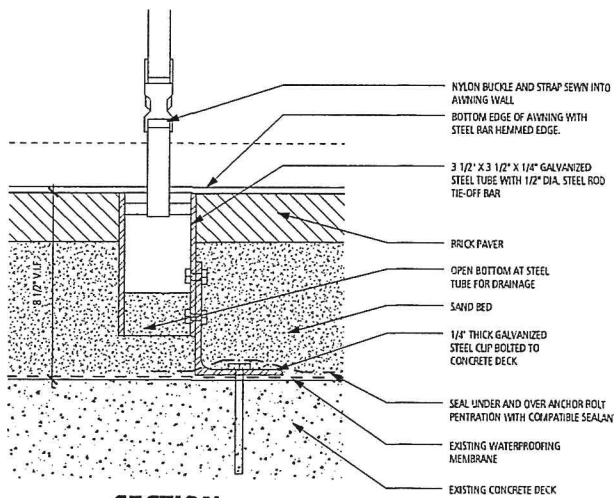
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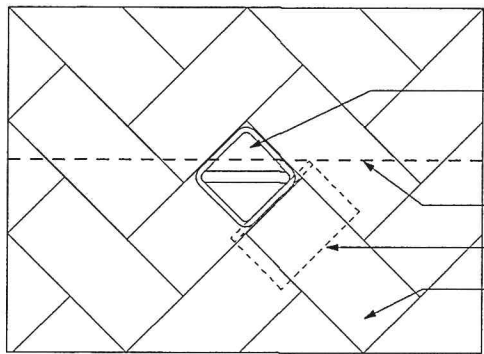
SECTION A-A



SECTION B-B



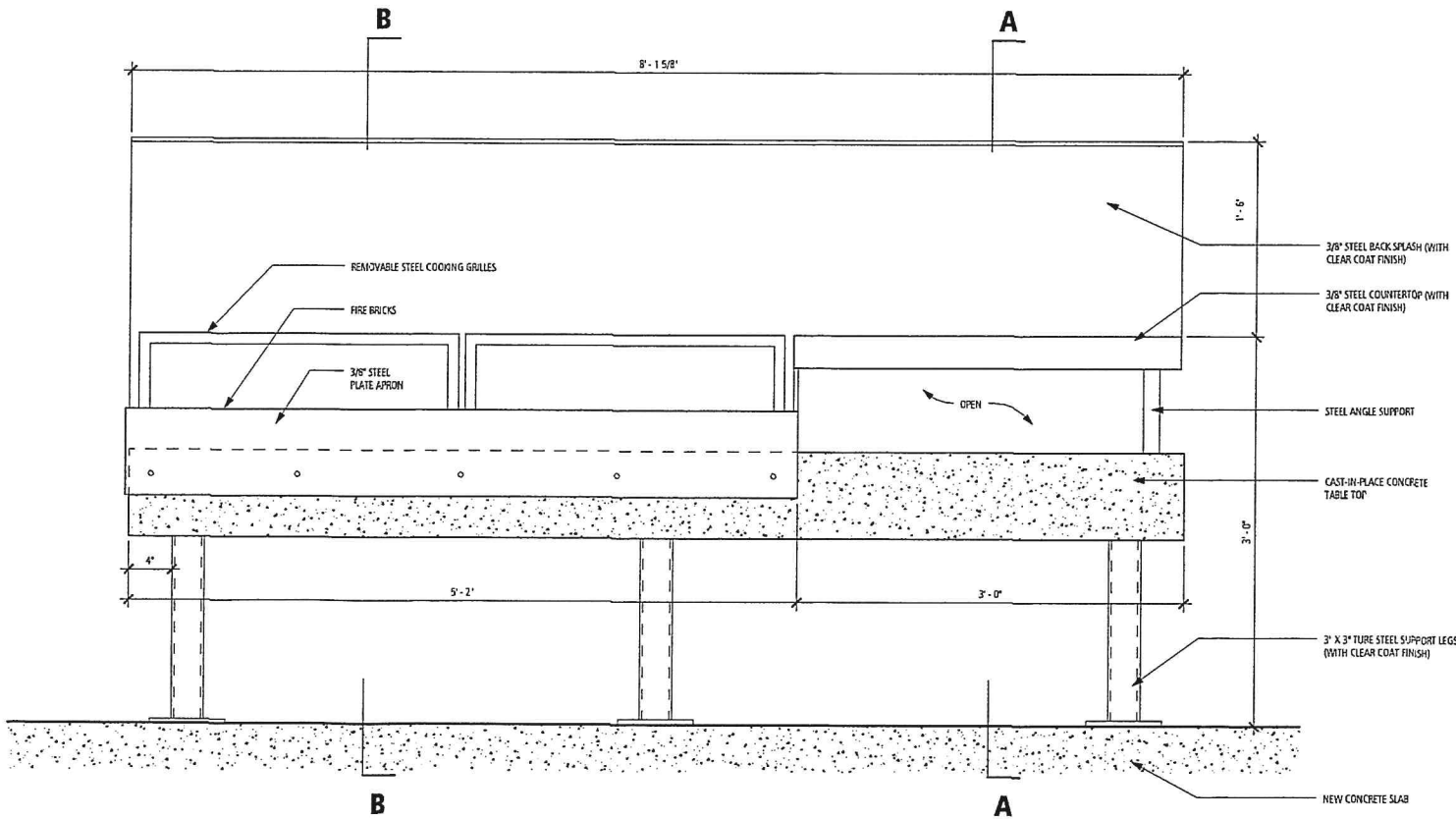
SECTION



PLAN VIEW

3 Tie-Down Detail
3" = 1'-0"

1 Grilling Table Detail
1 1/2" = 1'-0"



2 Grilling Table Elevation
1 1/2" = 1'-0"

No.	Description	Date
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41 Cherry Street, LLC

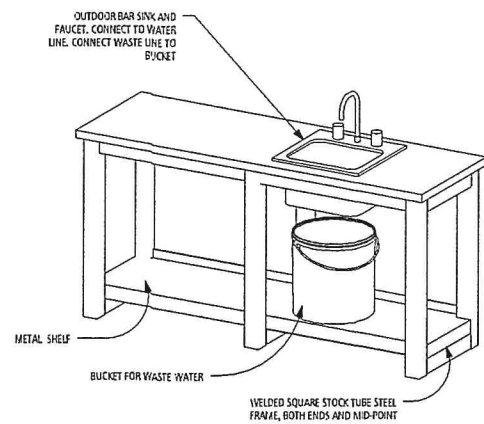
Asado Pavilion

Equipment Details

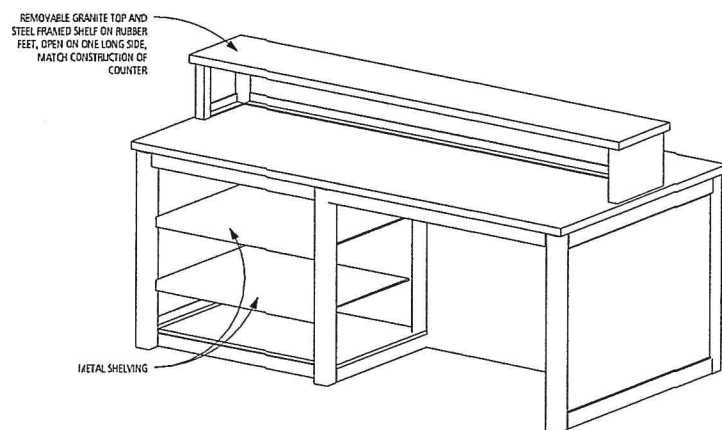
Project number:	A2014021.00
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Checked by:	KV
Project Phase:	FOR PERMIT

A105

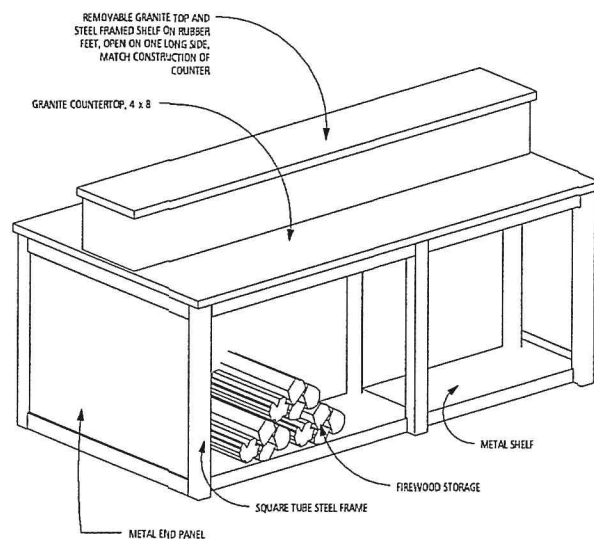
Scale: As indicated



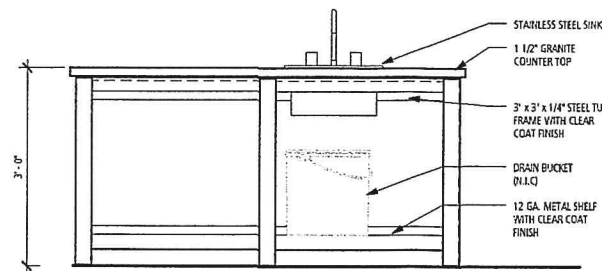
5 Sink Counter Isometric- Rear



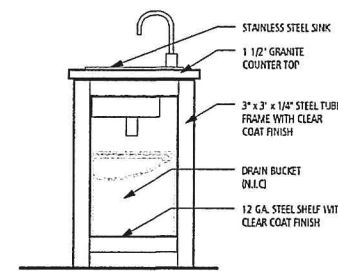
4 Serving Counter Isometric- Rear



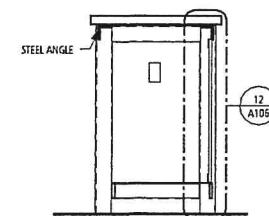
3 Serving Counter Isometric- Front



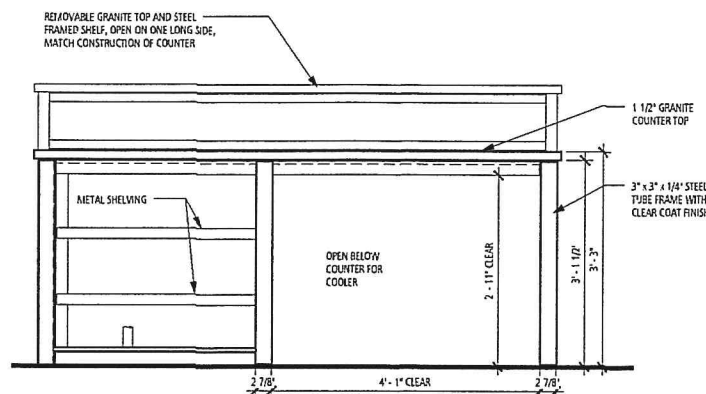
10 Sink Counter Front Elevation
3/4" = 1'-0"



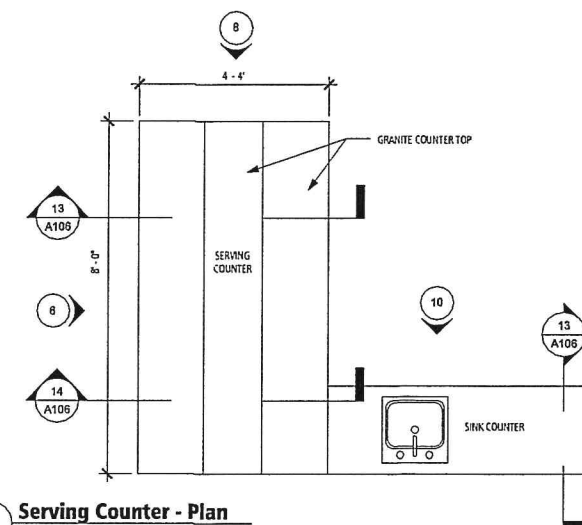
11 Sink Counter Side Elevation
3/4" = 1'-0"



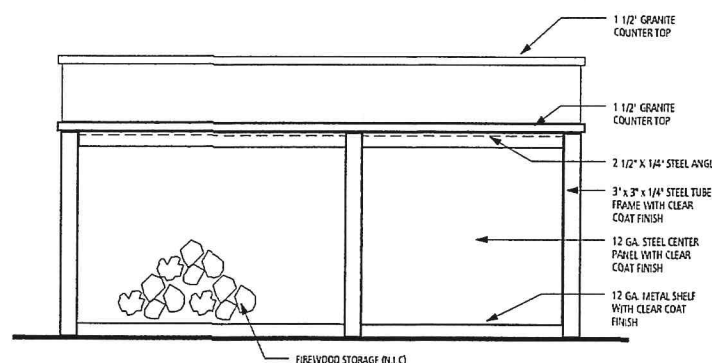
13 Sink Counter- Section
3/4" = 1'-0"



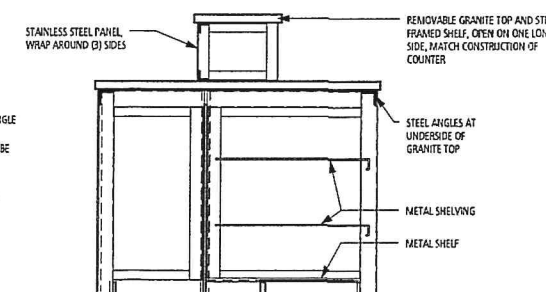
7 Serving Counter Rear Elevation
3/4" = 1'-0"



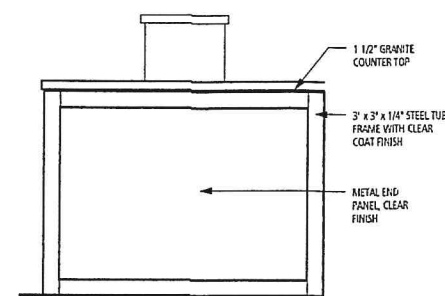
1 Serving Counter - Plan
1/2" = 1'-0"



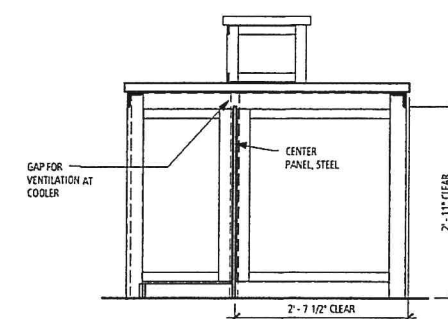
6 Serving Counter Front Elevation
3/4" = 1'-0"



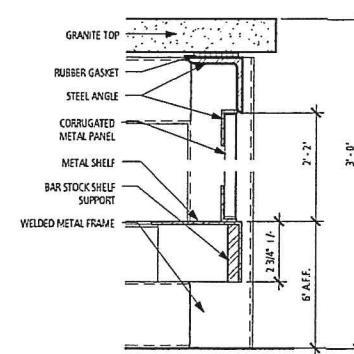
14 Serving Counter Section
3/4" = 1'-0"



8 Serving Counter Side Elevation
3/4" = 1'-0"



9 Serving Counter Section
3/4" = 1'-0"



12 Serving Counter - Detail
3" = 1'-0"

truexcullins

209 BATTERY STREET, BURLINGTON, VERMONT 05401 USA
Phone 802.658.2775 800.227.1076
ARCHITECTURE + INTERIOR DESIGN | TRUEXCULLINS.COM

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PLANNING

No.	Description	Date

41 Cherry Street, LLC

Asado Pavilion

Equipment Details

Project number:	A2014021.00
Date:	14 APRIL 2015
Drawn by:	PB/AC
Checked by:	KN
Project Phase:	FOR PERMIT

A106

Scale: As indicated

PLANT SCHEDULE

KEY	QTY.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING
-----	------	-----------------	-------------	------	---------

DECIDUOUS TREES

BN	3	Betula nigra 'Heritage'	HERITAGE RIVER BIRCH	?	AS SHOWN
----	---	-------------------------	----------------------	---	----------

SHRUBS

DL	15	Diervilla lonicera	DWARF DIERVILLA	#3	30" O.C.
RA	15	Rhus aromatica 'Gro-Low'	DWARF FRAGRANT SUMAC	#5	3' O.C.

ORNAMENTAL GRASSES

CA	14	Calamagrostis x acutiflora 'Karl Foerster'	KARL FOERSTER FEATHER REED GRASS	#1	18" O.C.
CI	188	Carex 'Ice Dance'	ICE DANCE SEDGE	#1	12" O.C.
FE	20	Festuca 'Elijah Blue'	BLUE FESCUE	#1	12" O.C.
MS	11	Miscanthus sinensis 'Purpurea'	PURPLE FLAME GRASS	#3	30" O.C.
PV	14	Panicum virgatum 'Heavy Metal'	HEAVY METAL SWITCH GRASS	#3	30" O.C.

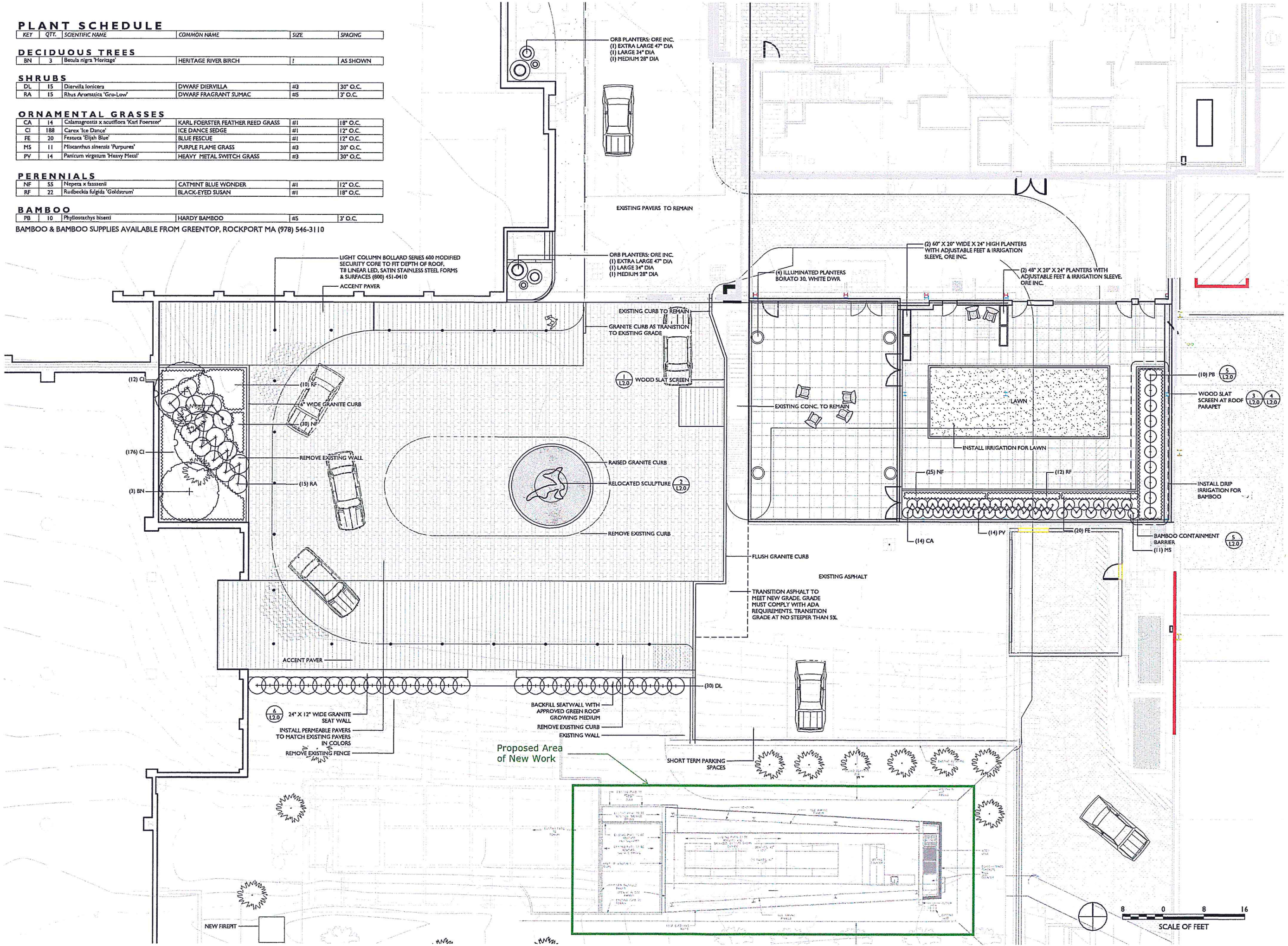
PERENNIALS

NF	55	Nepeta x faassenii	CATMINT BLUE WONDER	#1	12" O.C.
RF	22	Rudbeckia fulgida 'Goldstrum'	BLACK-EYED SUSAN	#1	18" O.C.

BAMBOO

PB	10	Phyllostachys biserial	HARDY BAMBOO	#5	3' O.C.
----	----	------------------------	--------------	----	---------

BAMBOO & BAMBOO SUPPLIES AVAILABLE FROM GREENTOP, ROCKPORT MA (978) 546-3110



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PLAN

REVISIONS
08.03.15

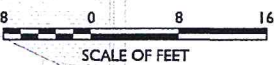
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JOB NO. 509

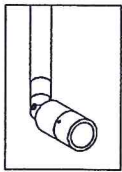
SCALE 1" = 8'-0"

DATE 06.02.15

L1.0



A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
TYPE	MANUFACTURER	CATALOG NUMBER	SOURCE	COLOR TEMP	FOCUS (FIELD CHANGEABLE)	STEM LENGTH	COLOR	WATTS	FUNCTION	DIMMING GROUP	DIMMING GROUP NAME	DIMMER TYPE	QTY ON GROUP	TOTAL WATTS	MOUNTING	POWER SUPPLY	NOTES
AS-3	BK LIGHTING	PM-3-MN-LED-E37-SP-B2P-12-11-D -	LED	2,700 k	SPOT	3"	DARK BRONZE	8	ENTRANCE ACCENT	1	WEST END CEILING	MAGNETIC LOW VOLTAGE DIMMER	2	16	SURFACE CEILING	REMOTE	RECEIVED 10/20/2015 DEPARTMENT OF PLANNING
AS-3-TRA-1	BK LIGHTING	TR150-120	MLV	NA	NA	NA	STANDARD	150	TRANSFORMER	1		MAGNETIC LOW VOLTAGE DIMMER			WALL		AUG 2015 RECEIVED MOUNT POWER SUPPLY AS INDICATED ON DRAWINGS
AS-3	BK LIGHTING	PM-3-MN-LED-E37-SP-B2P-12-11-D	LED	2,700 k	SPOT	3"	DARK BRONZE	8	PREP-AREA	2	SERVING PREP AREA	MAGNETIC LOW VOLTAGE DIMMER	3	24	SURFACE CEILING	REMOTE	RECEIVED 10/20/2015 DEPARTMENT OF PLANNING
AS-3-TRA-2	BK LIGHTING	TR150-120	MLV	NA	NA	NA	STANDARD	150	TRANSFORMER	1		MAGNETIC LOW VOLTAGE DIMMER			WALL		RECEIVED 10/20/2015 DEPARTMENT OF PLANNING MOUNT POWER SUPPLY AS INDICATED ON DRAWINGS
AS-6	BK LIGHTING	PM-6-MN-LED-E37-SP-B2P-12-11-D	LED	2,700 k	SPOT	6"	DARK BRONZE	8	DINING	3	COMMUNITY TABLE	MAGNETIC LOW VOLTAGE DIMMER	3	24	SURFACE CEILING	REMOTE	
AS-6-TRA-1	BK LIGHTING	TR150-120	MLV	NA	NA	NA	STANDARD	150	TRANSFORMER	1		MAGNETIC LOW VOLTAGE DIMMER			WALL		MOUNT POWER SUPPLY AS INDICATED ON DRAWINGS
CS-BW	BK LIGHTING	DS-LED-E36-WFL-B2P-12-11-A - 360SL - PC- TRe20-B2P-1-120	LED	2,700 k	FLOOD	NONE	DARK BRONZE	8	SECURITY	NA	SECURITY	NA	1	8	WALL	WALL MOUNTED	CANDOPY POWER SUPPLY
CS-18	BK LIGHTING	PM-6-MN-LED-E37-SP-B2P-12-11-D	LED	2,700 k	SPOT	18"	DARK BRONZE	16	GRILL	4	GRILL	MAGNETIC LOW VOLTAGE DIMMER	2	32	SURFACE CEILING	REMOTE	MOUNT POWER SUPPLY AS INDICATED ON DRAWINGS
CS-18-TRA-1	BK LIGHTING	TR150-120	MLV	NA	NA	NA	STANDARD	150	TRANSFORMER	1		MAGNETIC LOW VOLTAGE DIMMER			WALL		
D	NOT USED																
E	NOT USED																
FS	BK LIGHTING	SF-36"-L-LED-e37-WFL-A9-B2P-13-11-A	LED	2,700 k	FLOOD	36"	DARK BRONZE	8	RAMP	5	RAMP	MAGNETIC LOW VOLTAGE DIMMER	2	16	IN GROUND WITH ANCHOR BASE	REMOTE	REPLACE EXISTING LIGHTS
FS-TRA-1	BK LIGHTING	TR150-120	MLV	NA	NA	NA	STANDARD	150	TRANSFORMER	1		MAGNETIC LOW VOLTAGE DIMMER			WALL		MOUNT POWER SUPPLY AS INDICATED ON DRAWINGS



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dimming



MICRO NITE™
PENDANT

PROJECT: ASADO PAVILION

TYPE: AS-3
CATALOG NUMBER: SEE BELOW
SOURCE: LED
NOTES:

CATALOG NUMBER LOGIC

Example ☐ - PM - 24 - MN - LED - e17 - SP - BLW - 12 - 11 - D

Material ☐
Blank - Aluminum

Series ☐
PM - Pendant

Projection ☐
18", 24", 30", 36", 42", or 48"
(specify in inches)

Fixture ☐
MN - Micro Nite Star™

Source ☐
LED - 'e' Technology with Integral Dimming Driver (25W min. load when dimmed)
Designed for use with remote 12VAC BKSL* transformers. Requires magnetic Low Voltage dimmer.

LED Type ☐
e37 - 8WLED/2.7K e17 - 18WLED/4K
e16 - 8WLED/3K e21 - 18WLED/Amber

Optics* ☐
SP - Spot (Green Indicator) NFL - Narrow Flood (Yellow Indicator) FL - Flood (Blue Indicator)

Finish ☐

Aluminum Finish		
Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass Finish	
Machined	MAC
Polished	POL
Mitique™	MIT

Premium Finish					
ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper	Also available in RAL Finishes See submittal SUB-1439-00	

Lens Type ☐
12 - Soft Focus Lens 13 - Rectilinear Lens

Shielding ☐
11 - Honeycomb Baffle

Cap Style ☐
C - Flush
D - 45° less Weep Hole
E - 90° less Weep Hole

DRIVER DATA Input Volts 12VAC/DC 50/60Hz InRush Current <250mA MAX (non-dimmed) Dimmable Magnetic Low Voltage Dimmer Operation Ambient Temperature -22°F-194°F (-30°C-90°C)

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e37	2700K	8.3	90
e16	3100K	8.3	90
e17	4100K	8.3	75
e21	Amber (590nm)	7.8	~

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L70)
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	CBCP	Visual Indicator
Spot	20°	2934	Green Dot
Narrow Flood	25°	1252	Yellow Dot
Flood	30°	945	Blue Dot

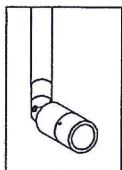
B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

SUBMITTAL DATE
02-05-15

DRAWING NUMBER
SUB-2369-00

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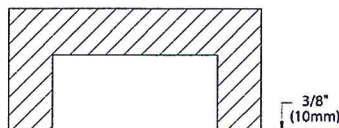


MICRO NITE™ PENDANT

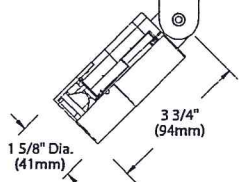
PROJECT: ASADO PAVILION

TYPE: AS-3

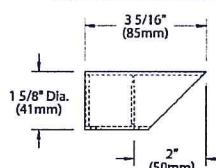
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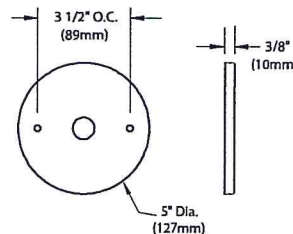
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(1219mm)



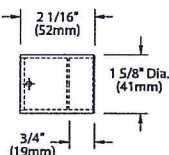
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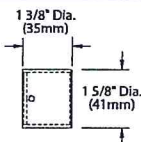
CANOPY DETAIL



"E" CAP

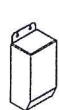


"C" CAP



Accessories (Configure separately)

Remote options:



TR Series



UPMRM™

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials

Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360).

Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle

The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. Biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap

Fully machined. Accommodates [1] lens or louver media. Choose from 45° cutoff ('D'), 1" deep bezel with 90° cutoff ('E'), flush lens, or ('C') cap styles.

Stem

Fully machined, 1" dia. with internal threads for maximum visual appeal. Available in configurable lengths to 48" maximum overall.

Lens

Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <250mA (non-dimmed). Conforms to Safety Std. C22.2 No. 250.13-12.

Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

Optics

Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Spot (SP) = Green. Narrow Flood (NFL) = Yellow. Flood (FL) = Blue.

Installation

5" dia., machined canopy permits mounting to 4" octagonal junction box. Junction box installation must be designed to hold full fulcrum weight of fixture (junction box and gasket by others).

Remote Transformer

For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Wiring

PVC coated, 18AWG, 150V, 60°C rated and certified to UL 1838 standard.

Hardware

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw and canopy mounting screws are additionally black oxide treated for additional corrosion resistance.

Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish.

Warranty

5 year limited warranty.

Certification and Listing

ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standard 1838 and UL Subject 8750 and Certified to CAN/CSA Standard C22.2 No. 9. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. IP66 Rated. Made in USA.



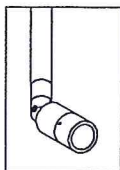
*Energy Star is a registered trademark of the United States Environmental Protection Agency.

B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

SUBMITTAL DATE
02-05-15

DRAWING NUMBER
SUB-2369-00



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**MICRO NITE™
PENDANT**

PROJECT: ASADO PAVILION

TYPE: AS-6
CATALOG NUMBER: SEE BELOW
SOURCE: LED
NOTES:

CATALOG NUMBER LOGIC

Example PM - 24 - MN - LED - e17 - SP - BLW - 12 - 11 - D

Material Blank - Aluminum

Series PM - Pendant

Projection 18", 24", 30", 36", 42", or 48"
(specify in inches)

Fixture MN - Micro Nite Star™

Source LED - 'e' Technology with Integral Dimming Driver (25W min. load when dimmed)
Designed for use with remote 12VAC BKSL transformers. Requires magnetic Low Voltage dimmer.*

LED Type e37 - 8WLED/2.7K e17 - 18WLED/4K
e16 - 8WLED/3K e21 - 18WLED/Amber

Optics* SP - Spot (Green Indicator) NFL - Narrow Flood (Yellow Indicator) FL - Flood (Blue Indicator)

Finish Aluminum Finish Brass Finish Premium Finish

Aluminum Finish			Brass Finish		Premium Finish					
Powder Coat Color	Satin	Wrinkle	Machined	MAC	ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
Bronze	BZP	BZW	Polished	POL	AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
Black	BLP	BLW	Mitique™	MIT	AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
White (Gloss)	WHP	WHW			BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
Aluminum	SAP	—			BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
Verde	—	VER			BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
					CAP	Clear Anodized Powder	OCP	Old Copper	Also available in RAL Finishes See submittal SUB-1439-00	

Lens Type 12 - Soft Focus Lens 13 - Rectilinear Lens

Shielding 11 - Honeycomb Baffle

Cap Style C - Flush
D - 45° less Weep Hole
E - 90° less Weep Hole

DRIVER DATA	Input Volts	InRush Current	Dimmable	Operation Ambient Temperature
	12VAC/DC 50/60Hz	<250mA MAX (non-dimmed)	Magnetic Low Voltage Dimmer	-22°F-194°F (-30°C-90°C)

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e37	2700K	8.3	90
e16	3100K	8.3	90
e17	4100K	8.3	75
e21	Amber (590nm)	7.8	~

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L70)
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	CBCP	Visual Indicator
Spot	20°	2934	Green Dot
Narrow Flood	25°	1252	Yellow Dot
Flood	30°	945	Blue Dot

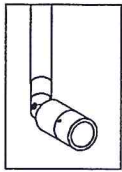
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SUBMITTAL DATE
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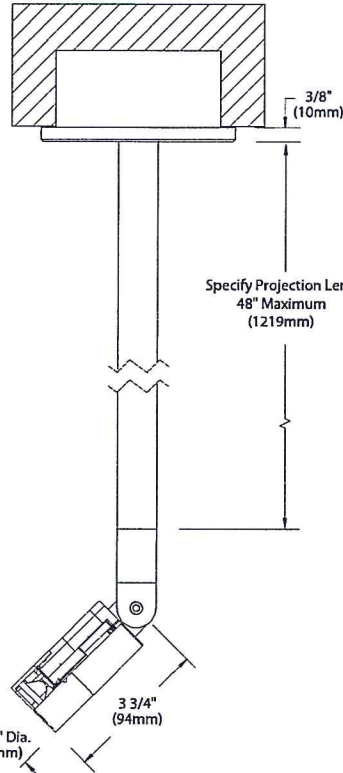


MICRO NITE™ PENDANT

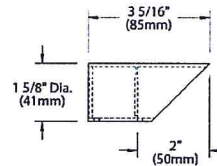
PROJECT: ASADO PAVILION

TYPE: AS-6

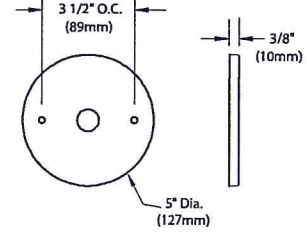
SIDE VIEW



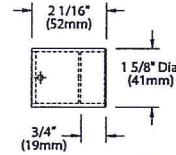
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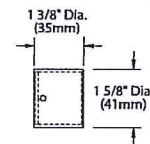
CANOPY DETAIL



"E" CAP

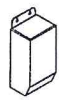


"C" CAP



Accessories (Configure separately)

Remote options:



TR Series



UPRM™



All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials

Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360).

Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle

The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. Biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap

Fully machined. Accommodates [1] lens or louver media. Choose from 45° cutoff ('D'), 1" deep bezel with 90° cutoff ('E'), flush lens, or ('C') cap styles.

Stem

Fully machined, 1" dia. with internal threads for maximum visual appeal. Available in configurable lengths to 48" maximum overall.

Lens

Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <250mA (non-dimmed). Conforms to Safety Std. C22.2 No. 250.13-12.

Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

Optics

Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Spot (SP) = Green. Narrow Flood (NFL) = Yellow. Flood (FL) = Blue.

Installation

5" dia., machined canopy permits mounting to 4" octagonal junction box. Junction box installation must be designed to hold full fulcrum weight of fixture (junction box and gasket by others).

Remote Transformer

For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Wiring

PVC coated, 18AWG, 150V, 60°C rated and certified to UL 1838 standard.

Hardware

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw and canopy mounting screws are additionally black oxide treated for additional corrosion resistance.

Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish.

Warranty

5 year limited warranty.

Certification and Listing

ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standard 1838 and UL Subject 8750 and Certified to CAN/CSA Standard C22.2 No. 9. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. IP66 Rated. Made in USA.



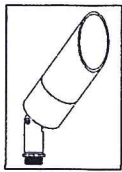
*Energy Star is a registered trademark of the United States Environmental Protection Agency.

B-K LIGHTING

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www.bklighting.com • info@bklighting.com

SUBMITTAL DATE
02-05-15

DRAWING NUMBER
SUB-2369-00



B-K LIGHTING
SOLID STATE LIGHTING

the power of
dimming



DELTA STAR™

PROJECT: ASADO PAVILION

TYPE: BW
CATALOG NUMBER: SEE BELOW

SOURCE:

NOTES:

CATALOG NUMBER LOGIC

Example: **DS** - **LED** - **e22** - **SP** - **A7** - **BZW** - **12** - **11** - **A** - **360SL**

Material

Blank - Aluminum
B - Brass
S - Stainless Steel

Series

DS - Delta Star™

Source

LED - 'e' Technology with Integral Dimming Driver (25W min. load when dimmed)
*Requires magnetic Low Voltage dimmer

LED Type

e36 - 8WLED/2.7K e23 - 8WLED/4K
e22 - 8WLED/3K e27 - 8WLED/Amber

Optics*

NSP - Narrow Spot (Red Indicator) MFL - Medium Flood (Yellow Indicator)
SP - Spot (Green Indicator) WFL - Wide Flood (Blue Indicator)

Adjust-e-Lume® Output Intensity** (Choose factory setting)

A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

**Please see Adjust-e-Lume® photometry to determine desired intensity.

Finish

Aluminum Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Brass Finish

Machined	MAC
Polished	POL
Mitique™	MIT

Stainless Finish

Machined	MAC
Polished	POL
Brushed	BRU <small>Interior use only.</small>

Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper	Also available in RAL Finishes See submittal SUB-1439-00	

Lens Type

12 - Soft Focus Lens 13 - Rectilinear Lens

Shielding

11 - Honeycomb Baffle

Cap Style

A - 45° B - 90° D - 45° less Weep Hole (Interior Use Only) E - 90° less Weep Hole (Interior Use Only)

Option

360SL - 360SL™ Rotational Knuckle Mounting System

DRIVER DATA

Input Volts

12VAC/DC 50/60Hz

InRush Current

<1A (non-dimmed)

Dimmable

Magnetic Low Voltage Dimmer

Operation Ambient Temperature

-10°F-130°F

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e36	2700K	8.4	90
e22	3100K	8.4	90
e23	4100K	8.4	75
e27	Amber (590nm)	7.9	~

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L70)
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	Visual Indicator
Narrow Spot	14°	Red Dot
Spot	18°	Green Dot
Medium Flood	25°	Yellow Dot
Wide Flood	36°	Blue Dot

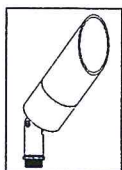
B-K LIGHTING

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SUBMITTAL DATE
1-8-14

DRAWING NUMBER
SUB000930

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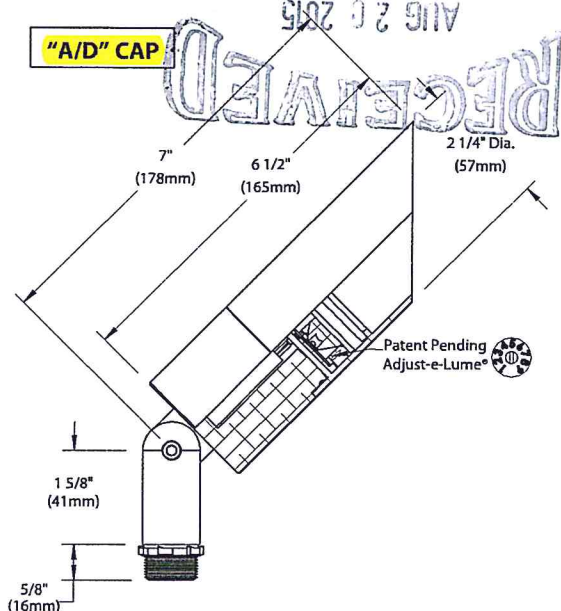


DELTA STAR™

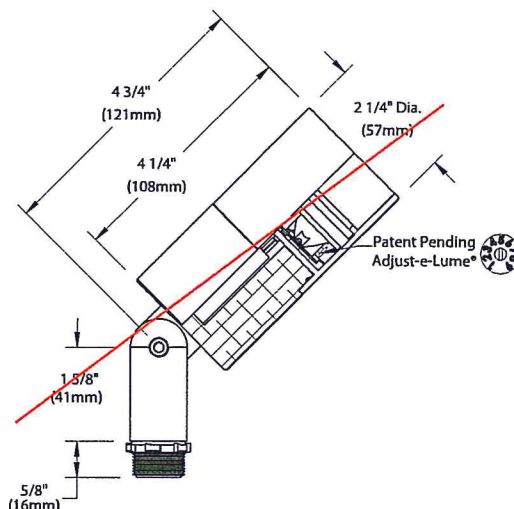
PROJECT: ASADO PAVILION

TYPE: BW

"A/D" CAP



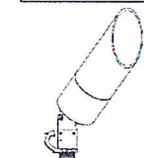
~~"B/E" CAP~~



360 SL™

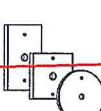
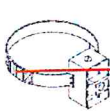
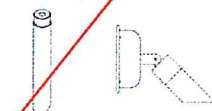
Accessories (Configure separately)

All dimensions indicated on this submittal are nominal. Contact Technical Sales if you require more stringent specifications.

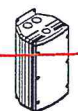
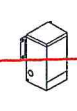


Horizontal Rotation
(Optional 360SL™ Knuckle)

Mounting:



Remote Transformers:



SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials

Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle

The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. 1/2" pipe thread for mounting.

Optional 360SL™ additionally provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap

Fully machined. Accommodates [1] lens or louver media. Choose from 45° cutoff ('A' or 'D'), or 1" deep bezel with 90°

cutoff ('B' or 'E') cap styles. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Lens

Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <1A (non-dimming). Conforms to Safety Std. C22.2 No. 250.13-12.

Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

Adjust-e-Lume® (Pat. Pending)

Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

Optics

Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood (WFL) = Blue.

Remote Transformer

For use with 12VAC BKSL remote transformer.

Wiring

Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw is additionally black oxide treated for additional corrosion resistance.

Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

Warranty

5 year limited warranty.

Certification and Listing

ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standard 1838 and UL Standard 8750. Certified to CAN/CSA Standard C22.2 No. 9, CSA TIL B-58B. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP66 Rated. Made in USA.



*Teflon is a registered trademark of DuPont Corporation.

*Energy Star is a registered trademark of the United States Environmental Protection Agency.

B-K LIGHTING

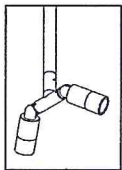
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SUBMITTAL DATE

1-8-14

DRAWING NUMBER

SUB000930



BKSL
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the power of
dimming



MICRO NITE™ TWIN PENDANT

DEPARTMENT OF
PLANNING & ZONING

AUG 20 2015

CATALOG NUMBER LOGIC

PROJECT: ASADO PAVILION

TYPE: CS-18
CATALOG NUMBER: SEE BELOW
SOURCE: LED
NOTES:

WM 18 MN LED e37 SP BZP 12 11 D

Example

Material Blank - Aluminum
Series WM - Twin Pendant
Projection 18", 24", 30", 36", 42", or 48" (specify in inches)
Fixture MN - Micro Nite Star™
Source LED - 'e' Technology with Integral Dimming Driver (25W min. load when dimmed) Designed for use with remote 12VAC BKSL* transformers. Requires magnetic Low Voltage dimmer.
LED Type e37 - 8WLED/2.7K e16 - 8WLED/3K e17 - 18WLED/4K e21 - 18WLED/Amber
Optics* SP - Spot (Green Indicator) NFL - Narrow Flood (Yellow Indicator) FL - Flood (Blue Indicator)
Finish Aluminum Finish

Aluminum Finish			Brass Finish		Premium Finish					
Powder Coat Color	Satin	Wrinkle	Machined	MAC	ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
Bronze	BZP	BZW	Polished	POL	AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
Black	BLP	BLW	Mitique™	MIT	AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
White (Gloss)	WHP	WHW			BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
Aluminum	SAP	—			BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
Verde	—	VER			BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
					CAP	Clear Anodized Powder	OCP	Old Copper	Also available in RAL Finishes See submittal SUB-1439-00	

Lens Type 12 - Soft Focus Lens 13 - Rectilinear Lens

Shielding 11 - Honeycomb Baffle

Cap Style C - Flush D - 45° less Weep Hole E - 90° less Weep Hole

DRIVER DATA Input Volts 12VAC/DC 50/60Hz InRush Current <250mA MAX (non-dimmed) Dimmable Magnetic Low Voltage Dimmer Operation Ambient Temperature -22°F-194°F (-30°C-90°C)

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e37	2700K	8.3	90
e16	3100K	8.3	90
e17	4100K	8.3	75
e21	Amber (590nm)	7.8	—

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L70)
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	CBCP	Visual Indicator
Spot	20°	2934	Green Dot
Narrow Flood	25°	1252	Yellow Dot
Flood	30°	945	Blue Dot

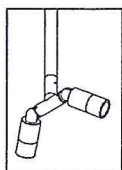
B-K LIGHTING

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SUBMITTAL DATE
02-05-15

DRAWING NUMBER
SUB-2371-00

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BKSSL
SOLID STATE LIGHTING

the power of
dimming

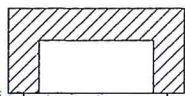


MICRO NITE™ TWIN PENDANT

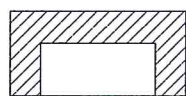
PROJECT: ASADO PAVILION

TYPE: CS-18

FRONT VIEW

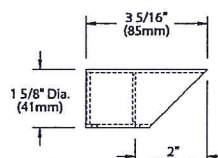


SIDE VIEW

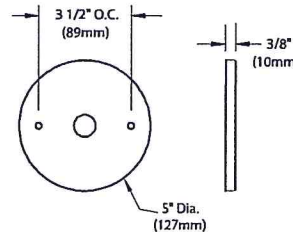


Specify Projection Length
48" Maximum
(1219mm)

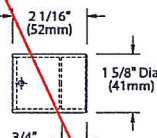
"D" CAP



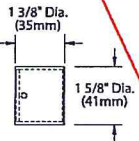
CANOPY DETAIL



"E" CAP



"C" CAP



Accessories (Configure separately)

Remote options:



TR Series



UPMRM™

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials

Furnished In Copper-Free Aluminum (Type 6061-T6), Brass (Type 360).

Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wiring and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle

The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. Biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap

Fully machined. Accommodates [1] lens or louver media. Choose from 45° cutoff ('D'), 1" deep bezel with 90° cutoff ('E'), flush lens, or ('C') cap styles. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Stem

Fully machined, 1" dia. with internal threads for maximum visual appeal. Available in configurable lengths to 48" maximum overall.

Lens

Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC Input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <250mA (non-dimmed). Conforms to Safety Std. C22.2 No. 250.13-12.

Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

Optics

Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Spot (SP) = Green. Narrow Flood (NFL) = Yellow. Flood (MFL) = Blu

Installation

5" dia., machined canopy permits mounting to 4" octagonal junction box. Junction box installation must be designed to hold full fulcrum weight of fixture (junction box and gasket by others).

Remote Transformer

For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Wiring

PVC coated, 18AWG, 150V, 60°C rated and certified to UL 1838 standard.

Hardware

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw and canopy mounting screws are additionally black oxide treated for additional corrosion resistance.

Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish.

Warranty

5 year limited warranty.

Certification and Listing

ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standard 1838 and UL Subject 8750 and Certified to CAN/CSA Standard C22.2 No. 9. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. IP66 Rated. Made in USA.



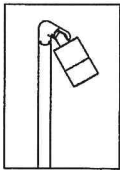
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SUBMITTAL DATE
02-05-15

DRAWING NUMBER
SUB-2371-00



BKSSL
SOLID STATE LIGHTING

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STAFF STAR™ STYLE L

PROJECT: ASADO PAVILION

TYPE: FS

CATALOG
NUMBER:

SOURCE:

NOTES:

CATALOG NUMBER LOGIC

SF	36	L	LED	e37	WFL	A9	BZP	13	11	A	
----	----	---	-----	-----	-----	----	-----	----	----	---	--

Example: SF - 42 - L - LED - e27 - MFL - A3 - BZW - 13 - 11 - B - PP18B

Series

SF - Staff Star™ Pathlight

Stem Length

24", 30", 36", 42", 48", 54", 60", 66", or 72"

(Specify in inches) * For use with Standard Anchor Base Only

Style

L - 90° Radius

Source

LED - 'e' Technology with Integral Dimming Driver (25W min. load when dimmed)

Designed for use with remote 12VAC BKSSL® transformers. Requires magnetic Low Voltage dimmer.

LED Type

e36 - 8WLED/2.7K

e23 - 8WLED/4K

e22 - 8WLED/3K

e27 - 8WLED/Amber

Optics*

NSP - Narrow Spot (Red Indicator)

MFL - Medium Flood (Yellow Indicator)

SP - Spot (Green Indicator)

WFL - Wide Flood (Blue Indicator)

Adjust-e-Lume® Output Intensity** (Choose factory setting)

A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

**Please see Adjust-e-Lume® photometry to determine desired intensity.

Finish

Aluminum Finish

Powder Coat Color	Satin	Wrinkle
Bronze	BZP	BZW
Black	BLP	BLW
White (Gloss)	WHP	WHW
Aluminum	SAP	—
Verde	—	VER

Premium Finish

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
BPP	Brown Patina Powder	NBP	Natural Brass Powder	WIR	Weathered Iron
CAP	Clear Anodized Powder	OCP	Old Copper	Also available in RAL Finishes See submittal SUB-1439-00	

Lens Type

12 - Soft Focus Lens

13 - Rectilinear Lens

Shielding

11 - Honeycomb Baffle

Cap Style

A - 45°

C - Flush

E - 45° less Weep Hole (Interior Use Only)

B - 90°

D - 45° less Weep Hole (Interior Use Only)

F - 90° cutoff with Flush Lens

Options

Blank - Anchor Base (Standard, for use with remote transformer)

PP18B - 18" Power Pipe™ stake with 'B' Cap (for use with remote transformer)**

PP-TRe20 - Power Pipe™ "T" option with 18" stake and TRe20 Electronic Transformer** (105-300 VAC, 50/60 Hz, Non-Dimming)

**For use with up to 48" maximum stem length

SF - Stability Flange (for use with Power Pipe™)

DRIVER DATA

Input Volts

12VAC/DC 50/60Hz

InRush Current

<250mA MAX (non-dimmed)

Dimmable

Magnetic Low Voltage Dimmer

Operation Ambient Temperature

-10°F-130°F

LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e36	2700K	8.4	90
e22	3100K	8.4	90
e23	4100K	8.4	75
e27	Amber (590nm)	7.9	~

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L70)
50,000
50,000
50,000
50,000

*OPTICAL DATA

Beam Type	Angle	e23 CBCP	Visual Indicator
Narrow Spot	14°	3594	Red Dot
Spot	18°	2456	Green Dot
Medium Flood	25°	1335	Yellow Dot
Wide Flood	36°	747	Blue Dot

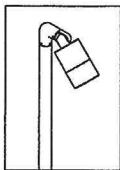
B-K LIGHTING

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www.bklighting.com • info@bklighting.com

SUBMITTAL DATE
01-26-15

DRAWING NUMBER
SUB-2343-00

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BKSSL
SOLID STATE LIGHTING

the power of  with **adjust-e-lume®** TECHNOLOGY

STAFF STAR™ STYLE L

PROJECT: ASADO PAVILION

TYPE: FS

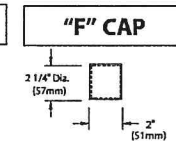
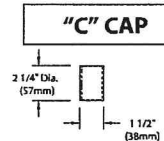
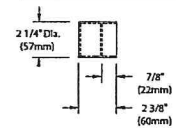
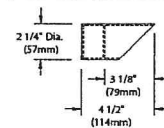
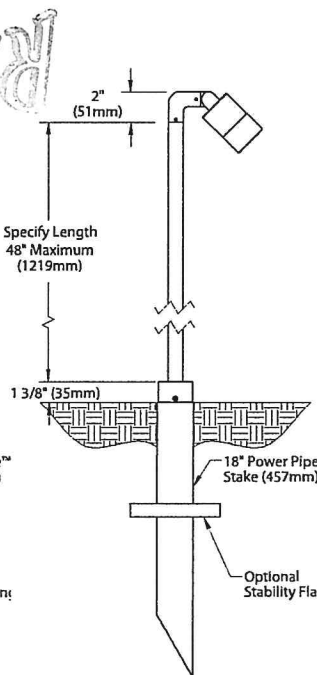
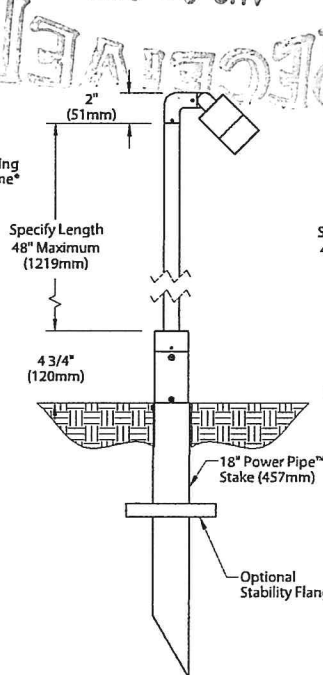
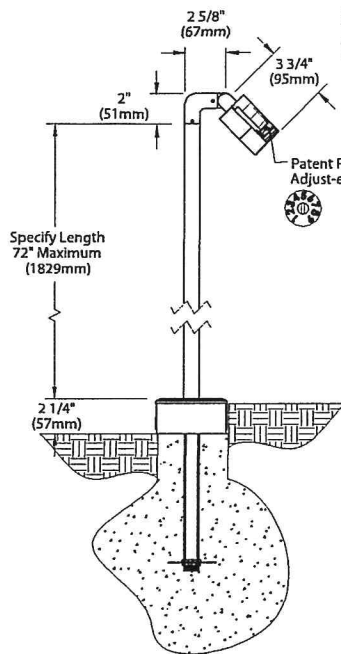
ANCHOR BASE

POWER PIPE 'T' (Mounting Option)

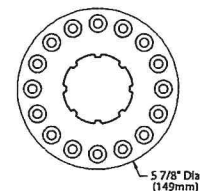
POWER PIPE™ (Mounting Option)

"A/D" CAP

"B/E" CAP



STABILITY FLANGE (optional)



All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Style

'L' Style provides clean, 90° transition from fixture to stem.

Materials

Furnished in Copper-Free Aluminum (Type 6061-T6).

Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle

The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. Biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap

Fully machined. Accommodates (1) lens or louver media. Choose from 45° cutoff ('A' or 'D'), 1° deep bezel with 90° cutoff ('B' or 'E'), flush lens ('C') cap styles, or 1° deep cutoff with flush mounted lens ('F'). Accommodates up to (2) lens or louver media. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Stem

Fully machined, 1" dia. with internal threads for maximum visual appeal. Available in configurable lengths to 72" maximum overall (with Anchor Base) and 48" maximum overall (with Power Pipe™).

Lens

Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

BKSSL®

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <250mA. Conforms to Safety Std. C22.2 No. 250.13-12.

Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

Adjust-e-Lume® (Pat. Pending)

Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset output intensity.

Optics

Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood (WFL) = Blue.

Installation

Available for installation in three distinct mounting conditions:

Anchor Base (Standard)

Cast aluminum junction box with pass-through cover. 10" galvanized anchor stem for installation into soil or concrete. For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Power Pipe™ (Optional)

Provides a clean transition from wiring system to fixture. Schedule 80, 18" PVC housing for direct burial into soil or concrete. Machined 2-1/4" dia. cap for fixture mounting. Stainless steel hardware. Optional 6" diameter, molded stability flange, which simplifies installation and projects into substrate to reinforce housing stability. For use with 12VAC remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Power Pipe™ with Transformer Housing (Optional)

Additionally features integral transformer housing fully machined from copper-free aluminum. High temperature, silicone 'O' Ring provides water-tight seal. Integral, Tre20 electronic transformer. 105-300VAC primary voltage. 50/60Hz. Non Dimming. 20VA maximum load.

Wiring

Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw screw is additionally black oxide treated for additional corrosion resistance.

Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating.

Warranty

5 year limited warranty.

Certification and Listing

ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standard 1838 and UL Subject 8750 and Certified to CAN/CSA Standard C22.2 No. 9. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP66 Rated. Made in USA.



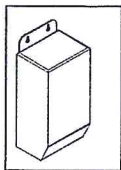
*Teflon is a registered trademark of DuPont Corporation.
*Energy Star is a registered trademark of the United States Environmental Protection Agency.

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DRAWING NUMBER
SUB-2343-00



TR SERIES

Magnetic Transformer

PROJECT: ASADO PAVILION

TYPE: AS-3-TRI-1-2

CATALOG NUMBER:

SOURCE: LED
NOTES: MOUNT BEHIND STRUCTURE

DEPARTMENT OF
PLANNING & ZONING

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CATALOG NUMBER LOGIC

TR150

120

Example

TR150 - 120

Series

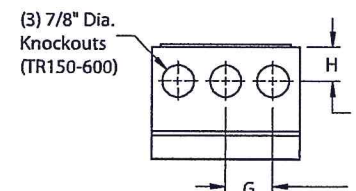
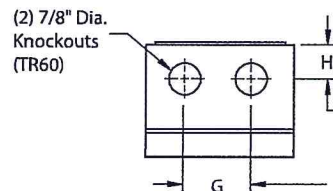
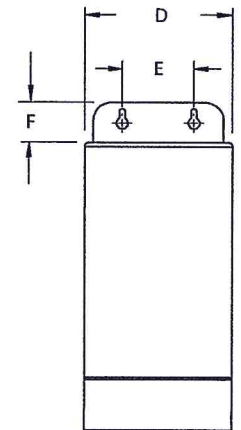
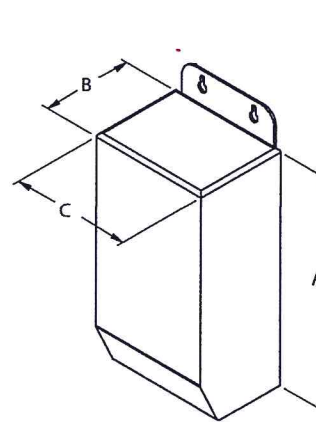
TR60 - 60W Magnetic Transformer
TR150 - 150W Magnetic Transformer
TR300 - 300W Magnetic Transformer
TR600 - 600W Magnetic Transformer

Input Voltage

120 - 120 Volt
277 - 277 volt

$$150 \times 25\% = 37.5 \text{ WATTS}$$

DIMENSIONS



TRANSFORMER DATA

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

Series	Input Voltage	Max. Load	Circuit Breaker	Weight	Height A	Depth B	C	D	E	F	G	H
TR60	120V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	120V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	120V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR600	120V	600W	25A	14.9 lbs.	9-13/32"	4-3/32"	4-19/32"	5-3/4"	4-5/8"	1-1/16"	1-1/2"	1-1/4"
TR60	277V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	277V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	277V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR600	277V	600W	25A	14.9 lbs.	9-13/32"	4-3/32"	4-19/32"	5-3/4"	4-5/8"	1-1/16"	1-1/2"	1-1/4"

SPECIFICATIONS

Housing

Stainless steel, NEMA Outdoor 3R rated enclosure. (2) (TR60) or (3) (TR150-600) bottom entry 7/8" knockouts provide access to wiring compartment. Riveted, hinged cover opens vertically from bottom to top for service access.

Transformer

Fully encapsulated, Class B insulated, low voltage magnetic transformer. 120VAC or 277VAC input. 12VAC output (fully loaded). 0.6A (120VAC) or 0.3A (277VAC) maximum no load input current. Manual thermal reset. Secondary circuit breaker. Enclosure temperature <65° C when fully loaded (in 40° C ambient).

For use with halogen and **BISSEL** products. Fully dimmable utilizing magnetic low voltage dimmers. Consult fixture specification for dimming capability.

Output Wiring

See B-K Lighting Low Voltage Design Guide on reverse.

Warranty

Limited five year warranty.

Certification and Listings

Nema Type 3R Enclosure. Suitable for indoor and outdoor use. UL Listed to ANSI/UL Standard 1012.



B-K LIGHTING

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www.bklighting.com • info@bklighting.com

SUBMITTAL DATE
7-30-13

SUBMITTAL NUMBER
TR-SERIES

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Low Voltage Guide

DEPARTMENT OF
PLANNING & ZONING

AUG 26 2015

Many B-K LIGHTING fixtures operate on 12 volts. Taking advantage of these energy-saving fixtures requires appropriate care in planning the electrical wiring system. To maintain expected lamp performance, we recommend the following procedures in sizing your low-voltage wiring system.

SIZING OF LOW VOLTAGE WIRING

1. Locate and plot fixtures on plan. Choose the lighting equipment necessary to create the desired lighting effects. Mark lamp wattage for each fixture location.
2. Identify potential transformer locations. The ideal locations are those which provide for the shortest possible low voltage distances (inconspicuous areas, behind rocks, shrubbery, etc., within the landscape). UPM, Power Pipe™, Power Pipe II™, or, if available, transformers integral in the fixture are good ways to hide the transformer and reduce voltage drop problems.
3. Add the total wattage for the proposed low voltage run. Measure the wire lengths from the transformer to the fixture locations. Find the distance to the "CENTER OF LOAD" of the low voltage run.

$$\text{CENTER OF LOAD} = \frac{\text{Distance from first to last fixture}}{(2) \text{ Two}} + \text{Distance from transformer to first fixture}$$

4. Using the B-K LIGHTING Wire Selection Table, select the wattage column which applies. Look down the column stopping at a distance, in feet, that is equal or greater than the "CENTER OF LOAD" distance. Look across to find the proper wire size for your layout.

Note: In the event of multiple runs from a given transformer, treat each run separately.

12-VOLT WIRE SELECTION TABLE

WIRE SIZE	TOTAL WATTAGE															
	12	20	24	35	40	50	60	70	80	100	105	120	140	150	160	200
12	178	106	89	60	53	42	35	30	26	21	20	17	15	13	—	—
10	283	169	141	96	85	67	56	48	42	33	32	28	24	22	19	17
8	450	269	225	154	135	107	90	77	67	54	51	45	38	36	31	27
6	715	428	357	245	214	171	143	122	107	85	81	71	61	57	49	42

CENTER OF LOAD WIRING DISTANCES IN FEET

The Wire Selection Table provided is based on a maximum allowable voltage drop of 5%. Electrical designs which allow greater than 5% voltage drop, reduce rated light output beyond acceptable levels.

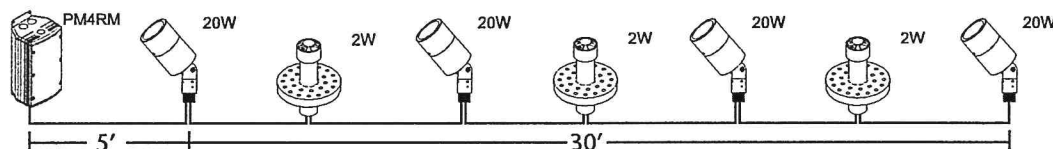
The importance of the proper wire selection is demonstrated below. Both examples have the same total watts and identical overall lengths of wire run, yet require different wire sizes, or multiple wire runs, to operate within the 5% maximum voltage drop B-K LIGHTING criteria.

EXAMPLE:

Total wattage:
(20w x 4) + (2w x 3) = 86 watts

CENTER OF LOAD:
 $(\frac{30}{2}) + 5' = 20'$

SINGLE WIRE RUN:
12 gauge

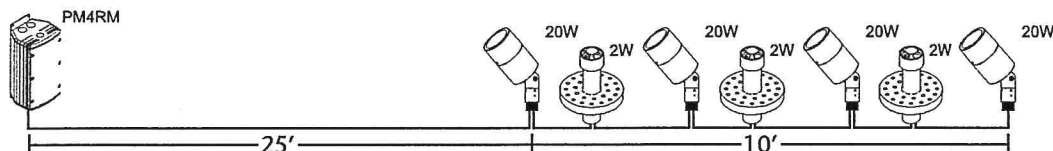


EXAMPLE:

Total wattage:
(20w x 4) + (2w x 3) = 86 watts

CENTER OF LOAD:
 $(\frac{10}{2}) + 25' = 30'$

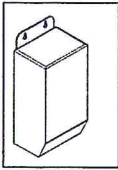
SINGLE WIRE RUN:
10 gauge



TRANSFORMERS

For areas which are far reaching from fixtures, running 120 volt power to each fixture location with individual transformers, such as TRSS75 or TRSS150, provides an excellent economic solution to voltage drop. These transformers can also be specified in the UPM, Power Pipe™, and Power Pipe II™ transformer housings.

Note: Installations should be in accordance with the National Electric Code and applicable local codes.



TR SERIES

Magnetic Transformer

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DEPARTMENT OF
PLANNING & ZONING

PROJECT: ASADO PAVILION

TYPE: AS-6-TRI-1

CATALOG
NUMBER:

SOURCE: LED
MOUNT BEHIND STRUCTURE

NOTES:

CATALOG NUMBER LOGIC

Example **TR150** - **120**

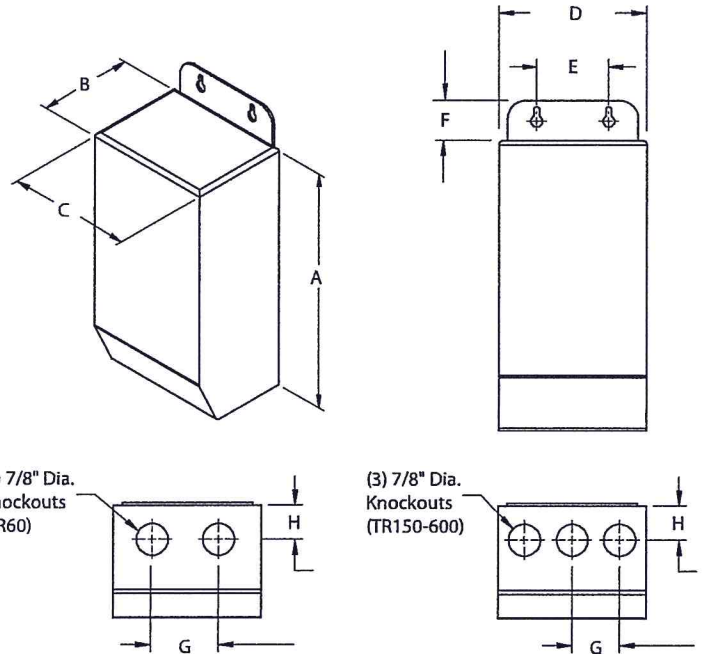
Series **TR150**

Input Voltage **120**

TR60 - 60W Magnetic Transformer
TR150 - 150W Magnetic Transformer
TR300 - 300W Magnetic Transformer
TR600 - 600W Magnetic Transformer

120 - 120 Volt
277 - 277 volt

DIMENSIONS



$$150 \times 25\% = 37.5 \text{ WATTS}$$

TRANSFORMER DATA

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

Series	Input Voltage	Max. Load	Circuit Breaker	Weight	Height A	Depth B	C	D	E	F	G	H
TR60	120V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	120V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	120V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR600	120V	600W	25A	14.9 lbs.	9-13/32"	4-3/32"	4-19/32"	5-3/4"	4-5/8"	1-1/16"	1-1/2"	1-1/4"
TR60	277V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	277V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	277V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR600	277V	600W	25A	14.9 lbs.	9-13/32"	4-3/32"	4-19/32"	5-3/4"	4-5/8"	1-1/16"	1-1/2"	1-1/4"

SPECIFICATIONS

Housing

Stainless steel, NEMA Outdoor 3R rated enclosure. [2] (TR60) or [3] (TR150-600) bottom entry 7/8" knockouts provide access to wiring compartment. Riveted, hinged cover opens vertically from bottom to top for service access.

Transformer

Fully encapsulated, Class B insulated, low voltage magnetic transformer. 120VAC or 277VAC input. 12VAC output (fully loaded). 0.6A (120VAC) or 0.3A (277VAC) maximum no load input current. Manual thermal reset. Secondary circuit breaker. Enclosure temperature <65° C when fully loaded (in 40° C ambient).

For use with halogen and **BK L** products. Fully dimmable utilizing magnetic low voltage dimmers. Consult fixture specification for dimming capability.

Output Wiring

See B-K Lighting Low Voltage Design Guide on reverse.

Warranty

Limited five year warranty.

Certification and Listings

Nema Type 3R Enclosure. Suitable for indoor and outdoor use. UL Listed to ANSI/UL Standard 1012.



B-K LIGHTING

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SUBMITTAL DATE
7-30-13

SUBMITTAL NUMBER
TR-SERIES

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Low Voltage Guide

DEPARTMENT OF
PLANNING & ZONING

AUG 26 2015

Many B-K LIGHTING fixtures operate on 12 volts. Taking advantage of these energy-saving fixtures requires appropriate care in planning the electrical wiring system. To maintain expected lamp performance, we recommend the following procedures in sizing your low-voltage wiring system.

SIZING OF LOW VOLTAGE WIRING

1. Locate and plot fixtures on plan. Choose the lighting equipment necessary to create the desired lighting effects. Mark lamp wattage for each fixture location.
2. Identify potential transformer locations. The ideal locations are those which provide for the shortest possible low voltage distances (inconspicuous areas, behind rocks, shrubbery, etc., within the landscape). UPM, Power Pipe™, Power Pipe II™, or, if available, transformers integral in the fixture are good ways to hide the transformer and reduce voltage drop problems.
3. Add the total wattage for the proposed low voltage run. Measure the wire lengths from the transformer to the fixture locations. Find the distance to the "CENTER OF LOAD" of the low voltage run.

$$\text{CENTER OF LOAD} = \frac{\text{Distance from first to last fixture}}{(2) \text{ Two}} + \text{Distance from transformer to first fixture}$$

4. Using the B-K LIGHTING Wire Selection Table, select the wattage column which applies. Look down the column stopping at a distance, in feet, that is equal or greater than the "CENTER OF LOAD" distance. Look across to find the proper wire size for your layout.

Note: In the event of multiple runs from a given transformer, treat each run separately.

12-VOLT WIRE SELECTION TABLE

WIRE SIZE	TOTAL WATTAGE																
	12	20	24	35	40	50	60	70	80	100	105	120	140	150	160	200	250
12	178	106	89	60	53	42	35	30	26	21	20	17	15	13	—	—	—
10	283	169	141	96	85	67	56	48	42	33	32	28	24	22	19	17	13
8	450	269	225	154	135	107	90	77	67	54	51	45	38	36	31	27	21
6	715	428	357	245	214	171	143	122	107	85	81	71	61	57	49	42	34

CENTER OF LOAD WIRING DISTANCES IN FEET

The Wire Selection Table provided is based on a maximum allowable voltage drop of 5%. Electrical designs which allow greater than 5% voltage drop, reduce rated light output beyond acceptable levels.

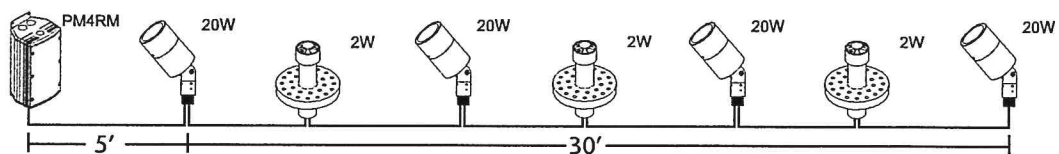
The importance of the proper wire selection is demonstrated below. Both examples have the same total watts and identical overall lengths of wire run, yet require different wire sizes, or multiple wire runs, to operate within the 5% maximum voltage drop B-K LIGHTING criteria.

EXAMPLE:

Total wattage:
(20w x 4) + (2w x 3) = 86 watts

CENTER OF LOAD:
 $(\frac{30'}{2}) + 5' = 20'$

SINGLE WIRE RUN:
12 gauge

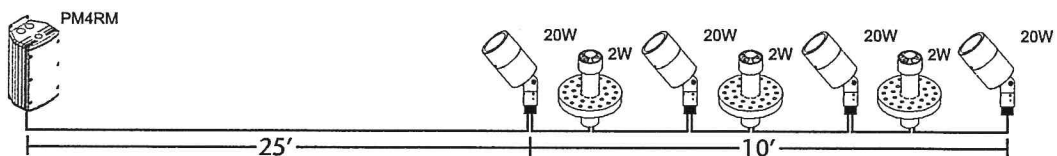


EXAMPLE:

Total wattage:
(20w x 4) + (2w x 3) = 86 watts

CENTER OF LOAD:
 $(\frac{10'}{2}) + 25' = 30'$

SINGLE WIRE RUN:
10 gauge



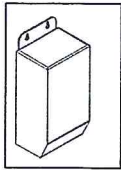
TRANSFORMERS

For areas which are far reaching from fixtures, running 120 volt power to each fixture location with individual transformers, such as TRSS75 or TRSS150, provides an excellent economic solution to voltage drop. These transformers can also be specified in the UPM, Power Pipe™, and Power Pipe II™ transformer housings.

Note: Installations should be in accordance with the National Electric Code and applicable local codes.



B-K LIGHTING



TR SERIES

Magnetic Transformer

DEPARTMENT OF
PLANNING & ZONING
AUG 20 2015
RECEIVED

PROJECT: ASADO PAVILION

TYPE: CS-6-TRI-1

CATALOG
NUMBER:

SOURCE: LED
MOUNT BEHIND STRUCTURE

NOTES:

CATALOG NUMBER LOGIC

Example **TR150 - 120**

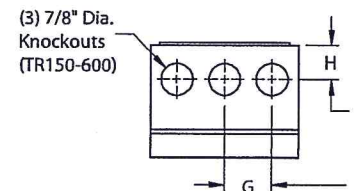
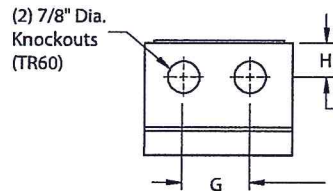
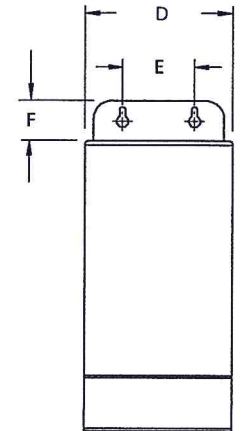
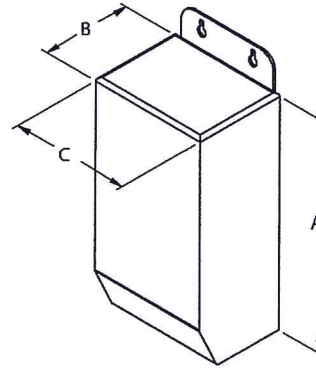
Series **TR150**

Input Voltage **120**

120 - 120 Volt
277 - 277 volt

TR60 - 60W Magnetic Transformer
TR150 - 150W Magnetic Transformer
TR300 - 300W Magnetic Transformer
TR600 - 600W Magnetic Transformer

DIMENSIONS



$$150 \times 25\% = 37.5 \text{ WATTS}$$

TRANSFORMER DATA

All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

Series	Input Voltage	Max. Load	Circuit Breaker	Weight	Height A	Depth B	C	D	E	F	G	H
TR60	120V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	120V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	120V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR600	120V	600W	25A	14.9 lbs.	9-13/32"	4-3/32"	4-19/32"	5-3/4"	4-5/8"	1-1/16"	1-1/2"	1-1/4"
TR60	277V	60W	8A	3.7 lbs.	7-1/2"	2-15/16"	3"	3-7/64"	1-1/2"	1-1/16"	1-1/2"	3/4"
TR150	277V	150W	25A	6 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
TR300	277V	300W	25A	7.13 lbs.	8"	3-3/32"	4-3/32"	5-1/2"	4-1/8"	1-1/8"	1-5/16"	15/16"
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SPECIFICATIONS

Housing

Stainless steel, NEMA Outdoor 3R rated enclosure. [2] (TR60) or [3] (TR150-600) bottom entry 7/8" knockouts provide access to wiring compartment. Riveted, hinged cover opens vertically from bottom to top for service access.

Transformer

Fully encapsulated, Class B insulated, low voltage magnetic transformer. 120VAC or 277VAC input. 12VAC output (fully loaded). 0.6A (120VAC) or 0.3A (277VAC) maximum no load input current. Manual thermal reset. Secondary circuit breaker. Enclosure temperature <65° C when fully loaded (in 40° C ambient).

For use with halogen and **BESSL** products. Fully dimmable utilizing magnetic low voltage dimmers. Consult fixture specification for dimming capability.

Output Wiring

See B-K Lighting Low Voltage Design Guide on reverse.

Warranty

Limited five year warranty.

Certification and Listings

Nema Type 3R Enclosure. Suitable for indoor and outdoor use. UL Listed to ANSI/UL Standard 1012.



B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

SUBMITTAL DATE
7-30-13

SUBMITTAL NUMBER
TR-SERIES

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Low Voltage Guide

Many B-K LIGHTING fixtures operate on 12 volts. Taking advantage of these energy-saving fixtures requires appropriate care in planning the electrical wiring system. To maintain expected lamp performance, we recommend the following procedures in sizing your low-voltage wiring system.

SIZING OF LOW VOLTAGE WIRING

1. Locate and plot fixtures on plan. Choose the lighting equipment necessary to create the desired lighting effects. Mark lamp wattage for each fixture location.
2. Identify potential transformer locations. The ideal locations are those which provide for the shortest possible low voltage distances (inconspicuous areas, behind rocks, shrubbery, etc., within the landscape). UPM, Power Pipe™, Power Pipe II™, or, if available, transformers integral in the fixture are good ways to hide the transformer and reduce voltage drop problems.
3. Add the total wattage for the proposed low voltage run. Measure the wire lengths from the transformer to the fixture locations. Find the distance to the "CENTER OF LOAD" of the low voltage run.

$$\text{CENTER OF LOAD} = \frac{\text{Distance from first to last fixture}}{(2) \text{ Two}} + \text{Distance from transformer to first fixture}$$

4. Using the B-K LIGHTING Wire Selection Table, select the wattage column which applies. Look down the column stopping at a distance, in feet, that is equal or greater than the "CENTER OF LOAD" distance. Look across to find the proper wire size for your layout.

Note: In the event of multiple runs from a given transformer, treat each run separately.

12-VOLT WIRE SELECTION TABLE

WIRE SIZE	TOTAL WATTAGE																
	12	20	24	35	40	50	60	70	80	100	105	120	140	150	160	200	250
12	178	106	89	60	53	42	35	30	26	21	20	17	15	13	—	—	—
10	283	169	141	96	85	67	56	48	42	33	32	28	24	22	19	17	13
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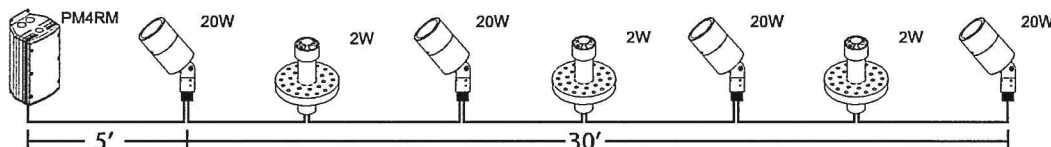
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SINGLE WIRE RUN:
12 gauge

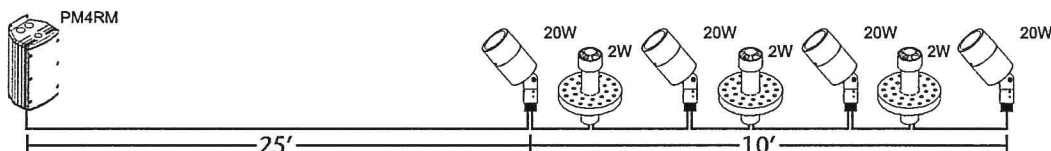


EXAMPLE:

Total wattage:
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CENTER OF LOAD:
 $\left(\frac{10'}{2}\right) + 25' = 30'$

SINGLE WIRE RUN:
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